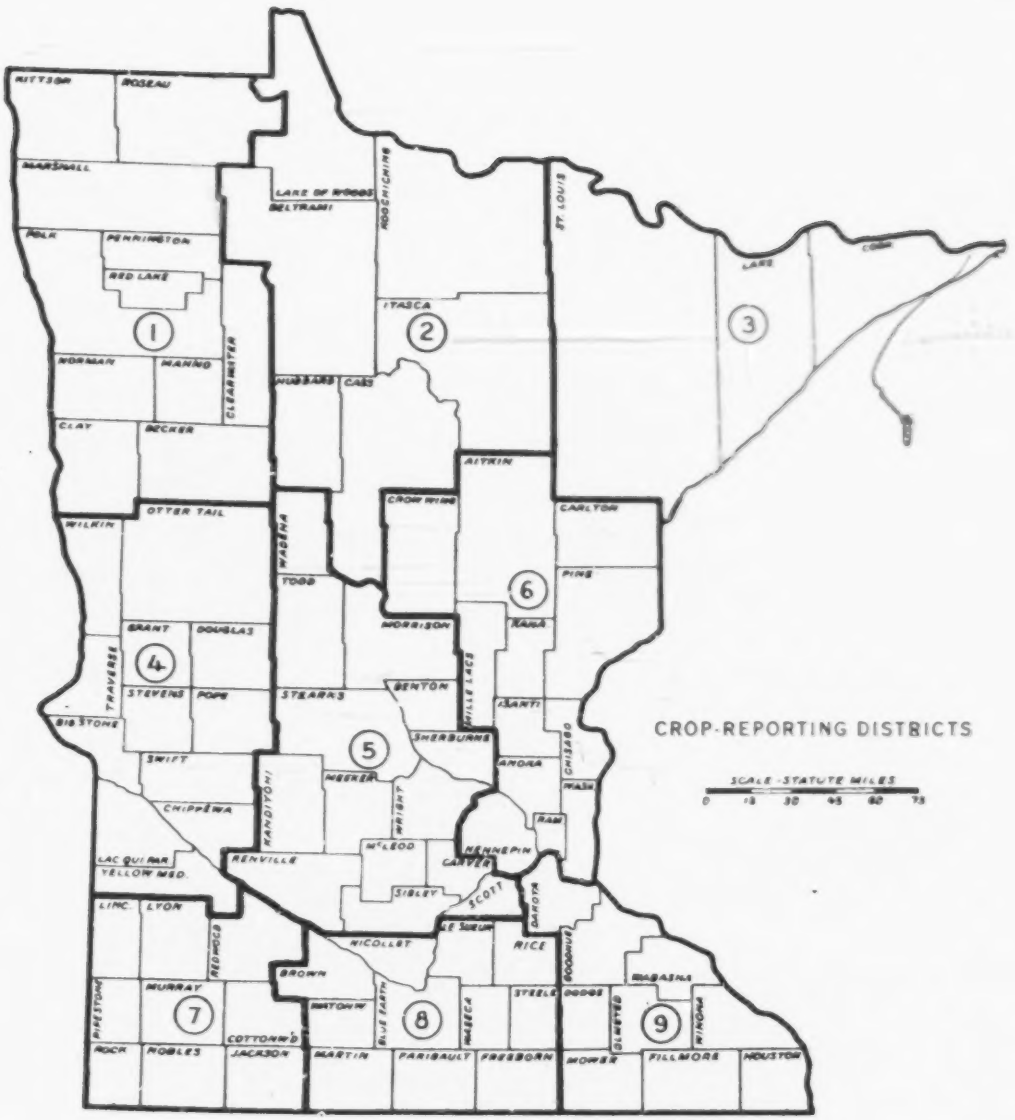

Cover and Insert Color Photos by:

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MINNESOTA AGRICULTURAL STATISTICS 1984

COMPILED and ISSUED BY THE

MINNESOTA AGRICULTURAL STATISTICS SERVICE

U.S. Department of Agriculture
Statistical Reporting Service

cooperating with the

Minnesota Department of Agriculture

P.O. Box 7068
90 W. Plato Blvd.
St. Paul, MN 55107

JULY 1984

FOREWORD

MINNESOTA *Agriculture*

Lakes, ladyslippers, and loons are often the visual representation of Minnesota. But the backbone of her economy is agriculture. Minnesota represents all the finest in what constitutes the "quality of life", due in large part to the quality of her food and fiber system.

Agriculture has led the way in making Minnesota the "state to watch" in development of high-technology systems. From the computerization of the state's family farms to the streamlining of food retailing channels, Minnesota agriculture assures a sophisticated food and fiber system that is unparalleled in quality and diversity.

Agriculture is Minnesota's most exportable product. With the efficiency and productivity of today's farms, production from about 1 out of every 3 Minnesota farmland acres is shipped overseas. When overseas customers come shopping to this country, they want quality. That's why they come to Minnesota.

Minnesota farm producers are an information-based industry... that's the reason we have provided this annual MINNESOTA AGRICULTURAL STATISTICS report for 62 consecutive years. But the report is also for industries which market Minnesota farm products either domestically or overseas.

It's also a stockpile of information for customers in the market for quality food and fiber products. Our message to these customers: "Go For Quality...Go For Minnesota Grown".

Jim Nichols
Commissioner

Carroll Rock
Agricultural Statistician in Charge

PRODUCTION ASSISTANCE ON THIS BOOK WAS PROVIDED BY: Linda Wright, Editor; Cec Foss and Aggie Moser, Crops; Sy Phillippi and Eileen Thurman, Livestock; and Julie Salves, Design Composition.

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MINNESOTA GROWN

SECTION I.

MINNESOTA GROWN

MINNESOTA'S RANK, NUMBER OF FARMS, FARM INCOME, EXPORTS, CLIMATIC SUMMARY

RANKINGS

MINNESOTA'S RANK AMONG STATES

ITEM	1	2	3	4	5	6	7	8	9	10
Number of Farms, June 1, 1983 1/	TX	MO	IA	KY	MN	IL	TN	OH	WI	IN
Cash Farm Income, 1983:										
Total	CA	IA	TX	IL	MN	NE	KS	WI	FL	IN
Crops	CA	IL	TX	IA	FL	MN	KS	IN	WA	OH
Livestock & Livestock Products	IA	TX	CA	NE	WI	MN	IL	PA	OK	MO
Crop Production, 1983:										
Corn for Grain	IA	IL	NE	MN	IN	OH	WI	MI	TX	SD
Soybeans	IA	IL	MN	IN	OH	MO	AR	LA	NE	MS
All Wheat	KS	ND	WA	TX	OK	MT	CO	NE	ID	SD
Other Spring Wheat	ND	MN	MT	SD	ID	WA	CO	OR	UT	WY
Oats	SD	MN	ND	WI	IA	TX	PA	MI	OH	NE
Barley	ND	MT	ID	WA	MN	CA	SD	CO	OR	UT
All Sunflowers	ND	SD	MN	TX	--	--	--	--	--	--
All Hay	WI	MN	NE	SD	TX	CA	IA	MO	NY	ID
All Potatoes	ID	WA	ME	OR	ND	CA	WI	CO	MI	MN
Sugarbeets	MN	CA	ID	ND	MI	NE	MT	TX	WY	CO
Flaxseed	ND	SD	MN	--	--	--	--	--	--	--
Rye	SD	MN	ND	GA	NE	OK	MI	PA	TX	NC
Sweet Corn for Processing	WI	MN	WA	OR	IL	NY	ID	MD	DE	PA
Green Peas for Processing	WI	WA	MN	OR	DE	NY	MD	--	--	--
Dry Edible Beans	MI	CA	NE	CO	ND	ID	MN	WA	WY	NY
Livestock, Dairy, Poultry:										
Red Meat Production, 1983	IA	TX	NE	KS	IL	MN	CO	CA	WI	MI
Cattle & Calves, Jan. 1, 1984 2/	TX	NE	IA	KS	OK	MO	CA	WI	SD	MN
Milk Cows, Jan. 1, 1984	WI	CA	NY	MN	PA	MI	OH	IA	TX	MO
Cattle & Calves on Feed, Jan. 1, 1984	TX	NE	KS	IA	CO	CA	IL	AZ	MN	SD
Cattle & Calves Marketed, 1983 3/	TX	NE	KS	IA	OK	CO	MO	CA	SD	WI
Hogs, December 1, 1983	IA	IL	MN	IN	NE	MO	NE	NC	OH	SD
Pig Crop, 1983	IA	IL	MN	IN	MO	NE	NC	OH	WI	KS
Hogs Marketed, 1983	IA	IL	IN	MN	MO	NE	NC	OH	KS	WI
Stock Sheep & Lambs, Jan. 1, 1984 4/	TX	WY	CA	SD	UT	NM	MT	CO	ID	OR
Lamb Crop, 1983 5/	TX	CA	WY	SD	MT	UT	ID	CO	NM	OR
All Chickens, December 1, 1983 3/	CA	GA	IN	PA	AR	NC	TX	AL	OH	FL
Eggs Produced, Dec. 1982-November 1983 3/	CA	PA	GA	IN	AR	NC	TX	OH	FL	AL
Turkeys Raised During 1983 6/	NC	MN	CA	MO	AR	VA	WI	PA	IN	IA
Milk Production, 1983	WI	CA	NY	MN	PA	MI	OH	IA	TX	WA
Dairy Products Manufactured During 1983--										
Total Cheese	WI	MN	NY	CA	IA	PA	MO	ID	SD	IL
American Cheese	WI	MN	CA	ID	IA	SD	NY	MO	UT	IN
Butter	WI	CA	MN	PA	WA	MI	NY	OH	MO	NE
Nonfat Dry Milk	CA	MN	WI	MI	IA	NY	PA	OH	ID	ND
Ice Cream	CA	PA	TX	NY	OH	MA	MN	IL	MI	FL
Agricultural Exports, Fiscal 1982	IL	IA	CA	TX	MN	NE	KS	IN	MO	ND

1/ MN and KY are tied for 4th place. 2/ IA and KS tied for 3rd place. 3/ MN ranks 11th. 4/MN ranks 14th. 5/ MT and UT tied for 5th place and MN ranks 12th. 6/ IN and IA tied for 9th place.

MINNESOTA'S LEADING AGRICULTURAL COUNTIES 1/

ITEM	1	2	3	4	5	6	7	8	9	10
CASH FARM INCOME, 1982:										
Total.....	Polk	Stearns	Renville	Martin	Redwood	O. Tail	Nobles	Jackson	Freeborn	Marshall
Crops.....	Polk	Marshall	Renville	Clay	Redwood	Martin	Norman	Bl. Earth	Freeborn	Faribault
Livestock.....	Stearns	O. Tail	Fillmore	Noble.	Rock	Kandi.	Goodhue	Martin	Lyon	Winona
Gov't Payments..	Polk	Marshall	Kittson	Norman	Clay	Martin	Freeborn	Roseau	Faribault	Mower
1983 CROP PRODUCTION:										
Corn for Grain..	Freeborn	Fillmore	Mower	Martin	Redwood	Renville	Jackson	Faribault	B. Earth	Nobles
Soybeans.....	Renville	Redwood	Martin	B. Earth	Jackson	Faribault	Nobles	C. Wood	Y. Med.	Freeborn
All Wheat.....	Polk	Marshall	Kittson	Norman	Clay	Roseau	Wilkin	Traverse	L.Q. Par.	Grant
Oats.....	O.Tail	Stearns	Douglas	Todd	Pope	Roseau	Kandi.	Fillmore	Morrison	Becker
Barley.....	Polk	Norman	Clay	Marshall	Mahnomen	Roseau	Kittson	Becker	Wilkin	Penn.
Sugarbeets.....	Polk	Clay	Renville	Wilkin	Norman	Chippewa	Marshall	Kittson	Grant	Swift
Sunflowers.....	Norman	Polk	Roseau	Clay	Marshall	Wilkin	Mahnomen	Kittson	Becker	Penn.
Rye.....	Sherburne	O. Tail	B. Stone	Marshall	Roseau	Polk	Douglas	Isanti	Traverse	Swift
Flax.....	Roseau	Marshall	Polk	Kittson	L. Woods	Becker	Lincoln	Caly	P. Stone	Penn.

1/ County estimates for livestock, dairy, and poultry discontinued due to state budget restrictions.

LAND VALUES

The export market, which caused land values to skyrocket from 1972-80, also was the primary reason that land values have dropped since 1980. The recession, the steady appreciation of the U.S. dollar in international markets, better crops worldwide, and U.S. price supports that work against exports have seriously eroded the demand for U.S. farm products overseas. The result was a massive buildup of grain supplies and lower farm prices.

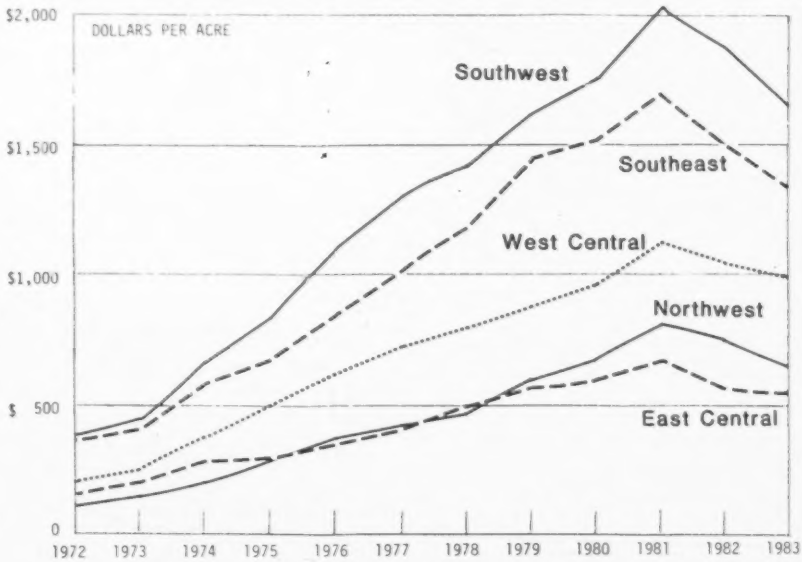
This, in turn, caused a sustained decline in the level of returns in the 1980's, a level which is not expected to increase measurably in the near future. Farmers also have experienced a reduction of potential returns from tax sheltering because of a slowing in the rate of inflation.

Consequently, Minnesota land values dropped 10% in both 1981-1982 and in 1982-83. This has placed many Minnesota farmers in financial peril. Because of the increased investment in farmland, levels of debt are higher and much of this debt was incurred at inflated asset values. Cash flows to service this debt have become a serious problem. Additionally, the slump in farmland values has eroded the farmer's borrowing power. The loss of potential captial gains is another factor.

In 1983, Minnesota's total farm real estate debt totaled $5.232 billion, more than double what it was in 1977.

Minnesota farmland values show wide variation across the state. The escalation and subsequent decline in values by districts are shown in the chart.

AVERAGE VALUE PER ACRE
OF MINNESOTA FARMLAND, BY FARM DISTRICTS



*From MINNESOTA AGRICULTURAL ECONOMIST, January 1984, Agricultural Extension Service, University of Minnesota, St. Paul, MN, 55108, "The Minnesota Rural Real Estate Market In 1983", by Mr. M.G. Smith, D. Downs, and P.M. Raup. Values are based on reporters' estimate of average value per acre of various grades of farmland in their area.

MINNESOTA FARM NUMBERS, LAND IN FARMS, AND AVERAGE FARM SIZE 1/

Year	Number of Farms	Land In Farms	Average Size of Farms
	Number	1,000 Acres	Acres
1979	104,000	30,000	288
1980	104,000	30,000	288
1981	105,000	30,400	290
1982	103,000	30,400	295
1983	103,000	30,400	295

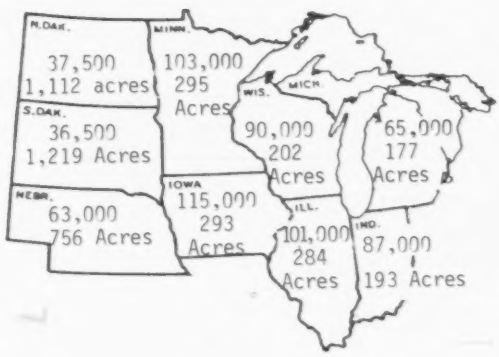
1/ Farms are defined as places which had annual sales of agricultural products of $1,000 or more.

ESTIMATED NUMBER OF FARMS IN 1983 AND AVERAGE FARM SIZE

United States

2,369,750 Farms

437 Acres Per Farm

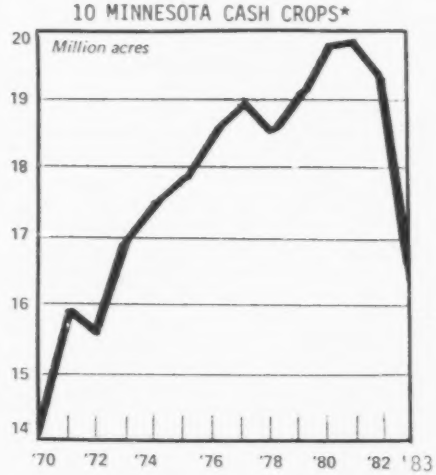


An estimated 103,000 farms were in operation during 1983, unchanged from 1982. The state's total land in farms remained the same as 1982, at 30.4 million acres.

The number of farms in the United States in 1983 is estimated at 2.37 million, down 1% from the 2.40 million in 1982. The sharpest declines were in the Southeast and East North Central States. Except for 1981, the number of farms has declined every year since 1936. The number of large farms (annual sales of $100,000 or more) continued to increase and now accounts for over 47 percent of all land in farms. In contrast, over half of the farms have annual sales less than $10,000, but only account for about 11% of the total farm land.

Total U.S. 1983 land in farms is 1,035 million acres, down fractionally from a year earlier. In 1983, the average farm size is 437 acres compared with 433 in 1982. This slight increase occurred in the large farm category; the average size of all other farms declined.

PIK PROGRAM SLASHES 1983 PLANTED ACRES, 10 MINNESOTA CASH CROPS*



*Corn, soybeans, all wheat, oats, barley, rye, sunflowers, flax, sugarbeets, dry beans.

MINNESOTA LIVESTOCK FARM NUMBERS 1/

Year	NUMBER OF OPERATIONS WITH --			
	CATTLE	MILK COWS	HOGS	SHEEP
1979	63,000	27,000	33,000	8,000
1980	62,000	27,000	35,000	8,000
1981	62,000	26,000	30,000	8,000
1982	62,000	26,000	24,000	8,600
1983	61,000	25,000	22,000	8,400

1/ Some operations may have more than one species hence sum is greater than total farms.

MINNESOTA FARM NUMBERS, AVERAGE FARM SIZE, AND TOTAL LAND IN FARMS, 1982 1/

District and County	Number of Farms	Average Farm Size	Total Land In Farms	District and County	Number of Farms	Average Farm Size	Total Land In Farms
	Number	Acres	Acres		Number	Acres	Acres
Becker	1,440	330	475,000	Aitkin	800	278	222,300
Clay	1,195	532	636,300	Anoka	775	146	113,000
Clearwater	770	335	258,200	Carlton	785	223	175,200
Kittson	705	814	573,600	Chisago	1,125	163	183,200
Mahnomen	470	522	245,500	Crow Wing	685	258	176,600
Marshall	1,590	596	948,000	Hennepin	1,140	107	122,500
Norman	890	612	544,500	Isanti	1,010	174	175,300
Pennington	725	490	355,600	Kanabec	885	246	217,500
Polk	2,000	596	1,192,500	Mille Lacs	1,080	188	203,500
Red Lake	520	498	258,700	Pine	1,370	250	342,400
Roseau	1,370	504	689,800	Ramsey	145	46	6,600
---Northwest	11,675	529	6,177,700	Washington	920	162	149,400
				---East Central	10,720	195	2,087,500
Beltrami	805	346	278,200				
Cass	800	284	227,400				
Hubbard	515	296	152,300	Cottonwood	1,215	319	387,800
Itasca	600	247	148,100	Jackson	1,380	310	428,200
Koochiching	315	377	118,800	Lincoln	955	330	315,600
Lake of the Woods	275	522	143,500	Lyon	1,250	344	430,600
---North Central	3,310	323	1,068,300	Murray	1,265	333	421,500
				Nobles	1,535	286	439,600
Cook	35	77	2,700	Pipestone	905	303	273,900
Lake	80	135	10,800	Redwood	1,730	312	539,800
St. Louis	1,120	196	219,300	Rock	1,060	275	291,700
---Northeast	1,235	189	232,800	---Southwest	11,295	312	3,528,700
Big Stone	580	452	262,300				
Chippewa	1,060	325	344,300	Blue Earth	1,580	276	436,500
Douglas	1,355	260	352,700	Brown	1,455	243	353,400
Grant	675	468	316,200	Faribault	1,410	305	430,500
Lac Qui Parle	1,150	400	459,500	Freeborn	1,625	261	423,800
Otter Tail	3,340	301	1,005,400	LeSueur	1,155	212	244,900
Pope	1,060	353	374,100	Martin	1,490	293	436,200
Stevens	730	452	329,700	Nicollet	1,010	260	262,700
Swift	1,070	416	444,600	Rice	1,420	194	275,200
Traverse	560	601	336,700	Steele	1,140	227	258,600
Wilkin	650	701	455,800	Waseca	945	266	250,900
Yellow Medicine	1,295	357	462,300	Watonwan	915	281	257,100
---West Central	13,525	380	5,143,600	---South Central	14,145	257	3,629,800
Benton	1,155	200	230,800				
Carver	1,240	161	199,500	Dakota	1,240	215	266,100
Kandiyohi	1,555	293	455,800	Dodge	1,020	263	268,300
McLeod	1,670	178	296,500	Fillmore	2,030	261	530,600
Meeker	1,480	246	364,200	Goodhue	2,060	220	453,700
Morrison	2,200	233	512,100	Houston	1,250	258	322,800
Renville	1,885	320	602,500	Mower	1,695	256	433,100
Scott	1,160	170	197,600	Olmsted	1,700	223	379,800
Sherburne	750	211	158,600	Wabasha	1,170	253	296,000
Sibley	1,580	226	357,200	Winona	1,330	260	346,300
Stearns	3,585	216	775,000	---Southeast	13,495	244	3,296,700
Todd	2,255	231	520,700				
Wadena	855	256	218,800				
Wright	2,230	155	345,600				
---Central	23,600	222	5,234,900	***MINNESOTA	103,000	295	30,400,000

1/ Farms are defined as places from which $1,000 or more of agricultural products were sold, or normally during the previous year.

MINNESOTA FARM INCOME

The following farm income estimates show gross farm income, production expenses, and net returns to farm operators for their farm work (including unpaid family) and for the capital invested in their farms and equipment.

Realized gross farm income includes cash receipts from farm marketings, government payments to farmers, value of farm products consumed in the home, value of housing provided by farm dwellings, and other farm income from recreation, machine hire, and custom work. Subtracting farm production expenses from realized gross income gives the realized net farm income. The total net income includes adjustments for increases or decreases in crop or livestock inventories.

TOTAL MINNESOTA FARM INCOME

Year	Realized Gross Farm Income					Farm Production Expenses	Realized Net Farm Income	Net Change In Farm Inventory 3/	Total Net Farm Income
	Cash Receipts From Farm Marketings	Government Payments	Non-Money Income 1/	Other Farm Income 2/	Total				
	Million Dollars					Million Dollars			
1979	5,536.0	68.4	441.3	58.7	6,104.4	4,939.6	1,164.8	280.8	1,445.6
1980	6,597.5	69.6	502.5	59.5	7,229.1	5,738.8	1,490.3	-255.2	1,235.1
1981	6,508.5	79.1	581.2	73.9	7,242.7	6,199.5	1,043.1	455.6	1,498.7
1982	6,672.2	182.9	591.8	78.2	7,525.0	6,339.3	1,185.7	-98.6	1,087.1
1983 4/	6,528.4	----	-----	----	-------	-------	-------	----	-------

1/ Includes value of home consumption and housing.
2/ Includes income from custom work, machine hire, and recreation.
3/ Estimated physical change in crops and livestock owned by farmers, valued at average prices prevailing during the year.
4/ Detailed data not available at time of publication.

MINNESOTA AVERAGE INCOME PER FARM 1/

Year	Number of Farms	Cash Receipts From Farm Marketings	Realized Gross Income	Farm Production Expenses	Realized Net Income	Total Net Income
	1,000	Dollars				
1979	104	53,231	58,696	47,496	11,200	13,900
1980	104	63,438	69,511	55,182	14,329	11,876
1981	105	61,986	68,978	59,043	9,935	14,274
1982	103	64,779	73,058	61,547	11,511	10,554
1983 2/	103	63,383	------	------	------	------

1/ Average per farm having sales of $1,000 or more.
2/ Detailed data not available at time of publication.

MINNESOTA CASH RECEIPTS FROM FARM MARKETINGS

Commodity	1980 1/		1981 1/		1982	
	Dollars	Pct. Of Total	Dollars	Pct. Of Total	Dollars	Pct. Of Total
	1,000 Dols.	Pct.	1,000 Dols.	Pct.	1,000 Dols.	Pct.
CROPS: 2/						
FEED GRAINS						
Corn	976,580	14.8	1,067,972	16.4	930,371	14.7
Oats	56,496	0.9	72,934	1.1	59,862	0.9
Barley	101,780	1.5	92,046	1.4	95,363	1.4
Hay	38,403	0.6	60,490	0.9	61,534	0.9
FOOD GRAINS						
Wheat	464,351	7.0	488,622	7.5	466,348	7.0
Rye	4,113	0.1	6,433	0.1	8,916	0.1
OIL CROPS						
Soybeans	1,119,533	17.0	900,264	13.8	930,893	14.0
Flaxseed	10,909	0.2	10,083	0.2	9,786	0.1
Sunflowers	167,357	2.5	121,302	1.9	95,760	1.4
VEGETABLE CROPS						
Potatoes	71,421	1.1	53,702	0.8	60,122	0.9
Sweet Corn (Processing)	27,425	0.4	32,852	0.5	38,486	0.6
Green Peas (Processing)	19,088	0.3	20,118	0.3	22,958	0.3
Dry Beans	21,763	0.3	29,708	0.5	12,770	0.2
All Seed Crops 3/	6,144	0.1	6,248	0.1	7,751	0.1
Apples	3,764	0.1	3,917	*	4,648	0.1
Sugarbeets	159,686	2.4	88,060	1.4	210,842	3.2
Greenhouse and Nursery	22,070	0.3	25,218	0.4	32,583	0.5
Forest Products	3,658	0.1	3,658	0.1	3,658	0.1
Other Crops & Vegetables 4/	34,245	0.5	32,868	0.5	28,935	0.4
TOTAL CROPS	3,308,786	50.2	3,116,495	47.9	3,131,586	46.9
LIVESTOCK PRODUCTS:						
MEAT ANIMALS						
Cattle & Calves	1,048,616	15.9	950,493	14.6	1,008,875	15.1
Hogs	732,598	11.1	792,788	12.2	839,473	12.6
Sheep & Lambs	11,408	0.2	11,120	0.2	14,716	0.2
DAIRY PRODUCTS	1,173,660	17.8	1,306,692	20.1	1,333,046	20.0
POULTRY & EGGS						
Turkeys	167,790	2.5	152,658	2.3	172,887	2.6
Turkey Eggs	19,581	0.3	22,160	0.3	21,276	0.3
Broilers	26,627	0.4	30,476	0.5	26,663	0.4
Farm Chickens	1,025	*	1,792	*	2,670	*
Eggs	82,579	1.3	101,400	1.6	99,701	1.5
Wool	1,453	*	1,576	*	1,087	*
Miscellaneous Other Livestock & Products 5/	23,372	0.3	20,882	0.3	20,220	0.3
TOTAL LIVESTOCK	3,288,709	49.8	3,392,037	52.1	3,540,614	53.1
TOTAL ALL CROPS & LIVESTOCK	6,597,495	100.0	6,508,532	100.0	6,672,200	100.0

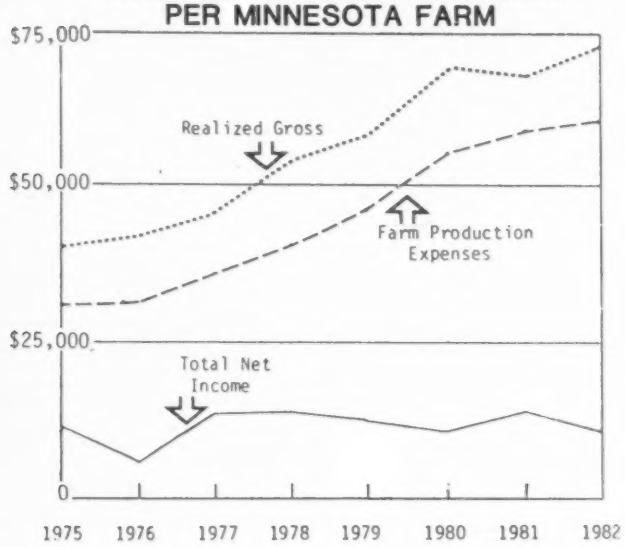
1/ Revised. 2/ Includes Commodity Credit Corporation loans (calculated by crop open market sales plus net CCC loans). 3/ Kentucky bluegrass, red clover, timothy, and other seeds. 4/ Asparagus, green lima beans, snap beans, cabbage, onions, carrots, cucumbers, miscellaneous vegetables, mushrooms, other fruits and field crops. 5/ Mink, goats, horses, mules, ducks, geese, honey, beeswax, and other livestock.

NOTE: Percents may not add to totals because of rounding.

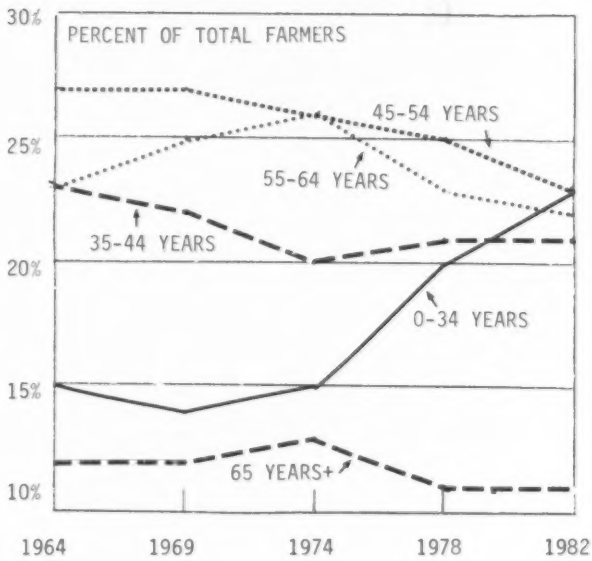
* Less than .05%.

Charting MINNESOTA Agriculture

AVERAGE INCOME & EXPENSES PER MINNESOTA FARM

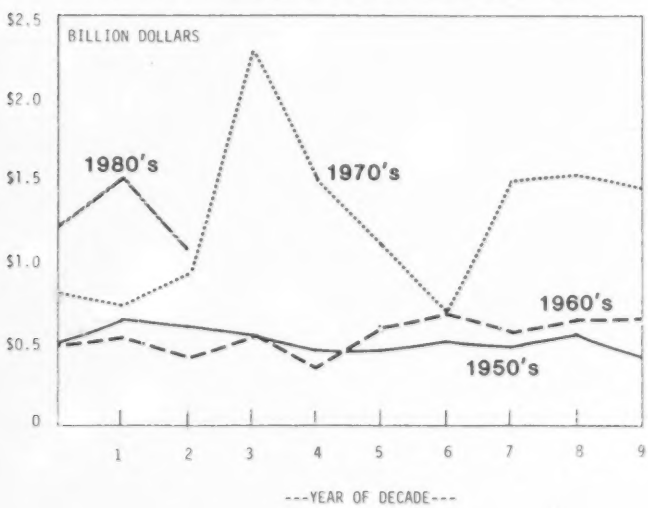


MINNESOTA FARMERS BY AGE GROUPS

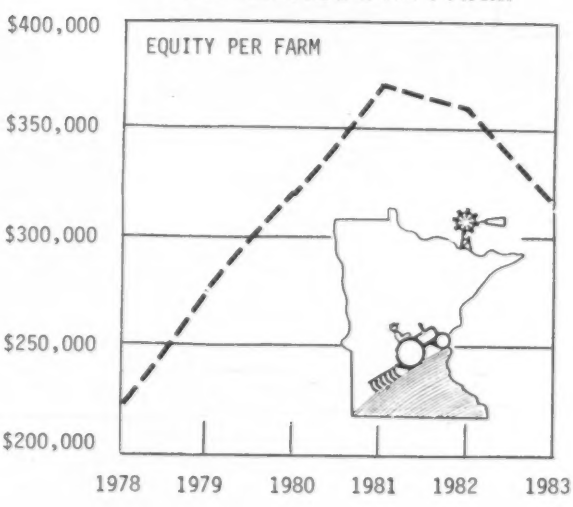


Source: U.S. Census of Agriculture

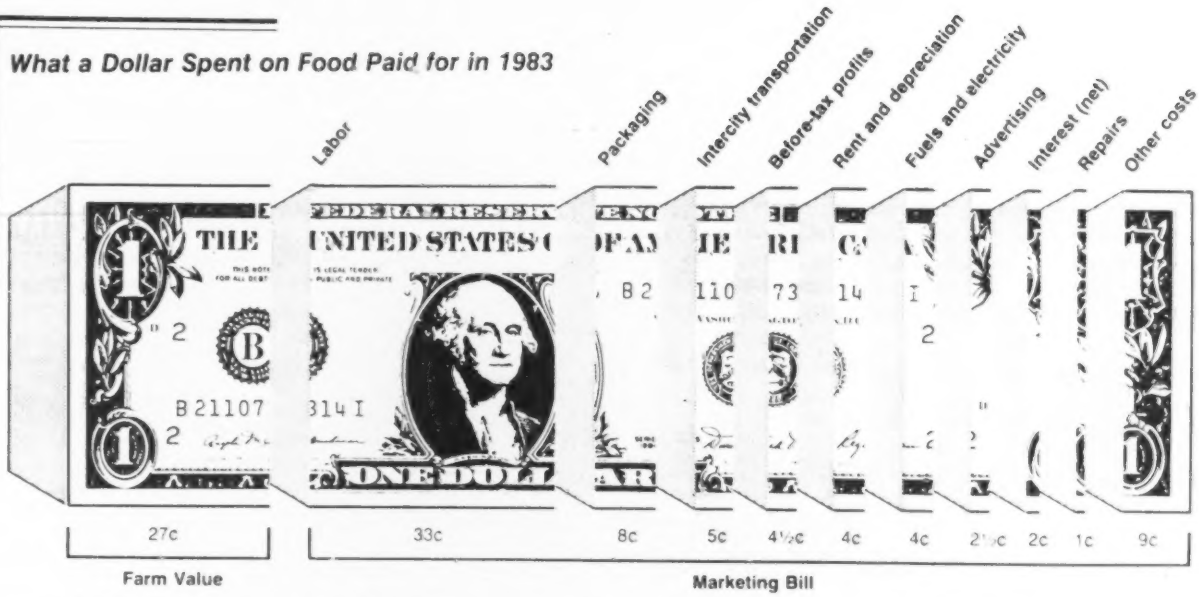
STABILITY OF MINNESOTA NET FARM INCOME OVER THREE DECADES



AVERAGE EQUITY PER MINNESOTA FARM



What a Dollar Spent on Food Paid for in 1983



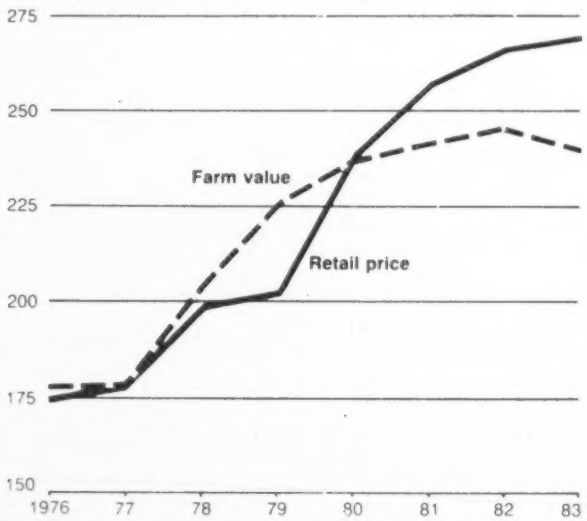
Includes food at home and away from home. Other costs include property taxes and insurance, accounting and professional services, promotion, bad debts and many miscellaneous items.

Farm Value Share of Foodstore Prices

	1983 retail price	Farm value	Farm value share of retail price
Eggs, large, 1 doz.	$0.92	$0.58	64%
Choice beef, 1 lb.	2.38	1.36	57
Milk, 1/2 gal.	1.13	.59	53
Chicken, 1 lb.	.73	.38	52
Pork, 1 lb.	1.70	.76	45
Frozen orange juice, 12 oz.	1.04	.44	42
Sugar, 1 lb.	.35	.14	40
Potatoes, russet, 10 lbs.	2.46	.67	27
Oranges, Calif., 1 lb.	.38	.08	21
Tomatoes, 1-lb. can	.53	.05	9
White bread, 1 lb.	.54	.05	9
Lettuce, 1 lb.	.55	.05	9

Computed from unrounded data.

Retail Food Prices Outpace Farm Values *



* Data for market basket of domestically produced farm foods.

MINNESOTA FARM EXPORTS BOOST STATE'S ECONOMY

Based on Minnesota's farm output, the state's ag exports totaled $1.82 billion in fiscal 1983.

Shown at the right is the value of these exports by commodity group. These shares are derived from Minnesota's contribution to U.S. production and/or sales. They are not actual exports but reflect Minnesota's important stake in the national export market.

1983 Minn. Ag Exports Worth $1.82 Bil.

(Figures are preliminary)

FEEDGRAINS	$604 Mil.
SOYBEANS & PRODUCTS	$596 Mil.
WHEAT & PRODUCTS	$276 Mil.
SUNFLOWER SEEDS AND OIL	$ 58 Mil.
DAIRY PRODUCTS	$ 57 Mil.
LIVE ANIMAL & MEAT (Excluding Poultry)	$ 44 Mil.
VEGETABLES	$ 35 Mil.
HIDES & SKINS	$ 35 Mil.
FATS, OILS, GREASES	$ 23 Mil.
POULTRY	$ 13 Mil.
OTHER	$ 78 Mil.
TOTAL	$1,820 Mil.

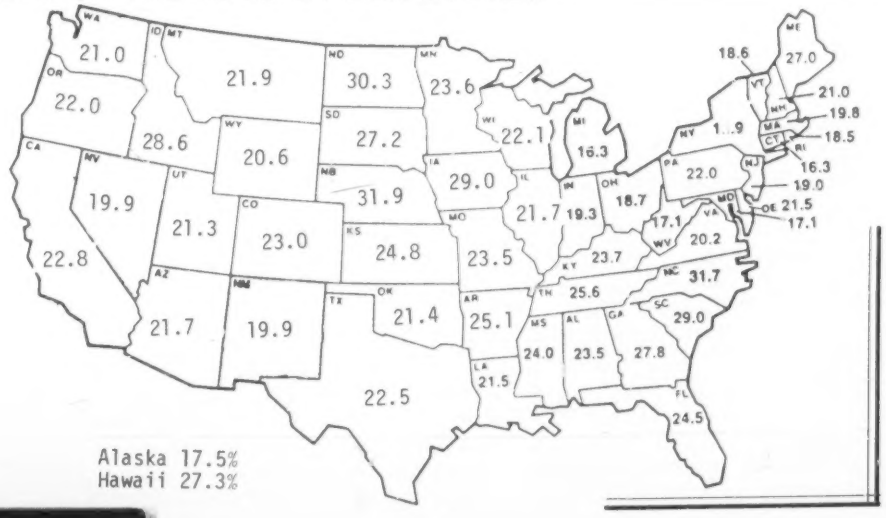
AGRICULTURE PROVIDES JOBS FOR MILLIONS OF PEOPLE

NUMBER OF WORKERS IN FOOD & FIBER SYSTEM AND STATE RANKING BY NUMBER OF WORKERS

State	Workers	Rank	State	Workers	Rank	State	Workers	Rank	State	Workers	Rank
Alabama	381,560	21	Indiana	503,460	16	Nebraska	246,040	31	So. Carolina	379,120	22
Alaska	31,520	50	Iowa	415,780	19	Nevada	71,130	46	So. Dakota	91,580	43
Arizona	227,980	34	Kansas	296,850	27	New Hampshire	93,280	41	Tennessee	506,360	15
Arkansas	239,520	32	Kentucky	369,920	23	New Jersey	673,000	10	Texas	1,407,900	3
California	2,501,900	1	Louisiana	361,740	24	New Mexico	106,930	40	Utah	124,460	37
Colorado	319,040	26	Maine	131,520	35	New York	1,594,600	2	Vermont	44,550	49
Connecticut	257,580	30	Maryland	357,480	25	No. Carolina	853,170	8	Virginia	500,460	17
Delaware	59,000	47	Massachusetts	571,360	12	No. Dakota	91,750	42	Washington	397,000	20
Florida	938,930	7	Michigan	701,870	9	Ohio	940,320	6	West Virginia	127,950	36
Georgia	649,560	11	MINNESOTA	486,210	18	Oklahoma	272,880	28	Wisconsin	526,690	14
Hawaii	108,870	39	Mississippi	237,100	33	Oregon	267,390	29	Wyoming	46,100	48
Idaho	120,700	38	Missouri	539,060	13	Pennsylvania	1,166,600	4			
Illinois	1,159,400	5	Montana	80,990	45	Rhode Island	83,220	44	U.S.	22,743,000	--

LABOR FORCE DEPENDENT ON THE FOOD & FIBER SYSTEM

(% of State's Workers Employed In Food & Fiber Jobs)



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MINNESOTA CASH INCOME RECEIVED BY FARMERS, BY COUNTY

DISTRICT AND COUNTY	1981				1982			
	CROPS	LIVESTOCK 1/	GOVERNMENT PAYMENTS	TOTAL	CROPS	LIVESTOCK 1/	GOVERNMENT PAYMENTS	TOTAL
	1,000 Dollars				1,000 Dollars			
BECKER	25,798	42,585	1,532	69,915	26,047	44,121	2,371	72,539
CLAY	103,987	22,703	3,595	130,285	104,208	23,556	6,229	133,993
CLEARWATER	6,008	12,858	500	19,366	6,025	13,349	228	19,602
KITTSON	73,461	5,228	3,675	82,364	73,574	5,418	7,753	86,745
MAHNOMEN	14,699	9,863	1,087	25,649	14,721	10,180	2,116	27,017
MARSHALL	127,732	11,342	4,873	143,947	127,918	11,759	11,136	150,813
NORMAN	84,393	19,200	3,774	107,367	84,529	19,876	7,623	112,028
PENNINGTON	30,730	11,422	1,738	43,890	30,776	11,858	3,682	46,316
POLK	196,641	24,548	5,973	227,162	196,966	25,389	11,691	234,046
RED LAKE	22,181	7,605	1,447	31,233	22,213	7,872	3,128	33,213
ROSEAU	48,289	19,275	2,428	69,992	48,359	19,955	4,593	72,907
---NORTHWEST	733,919	186,629	30,622	951,170	735,336	193,333	60,550	989,219
BELTRAMI	5,258	8,633	685	14,576	5,266	8,905	399	14,570
CASS	2,487	10,756	380	13,623	2,495	11,096	135	13,726
HUBBARD	2,503	6,697	247	9,447	2,523	6,951	216	9,690
ITASCA	1,986	4,210	178	6,374	2,020	4,342	66	6,428
KOOCHICHING	1,213	2,624	116	3,953	1,216	2,725	132	4,073
LAKE OF THE WOODS	6,033	2,261	336	8,630	6,042	2,340	489	8,871
---NORTH CENTRAL	19,480	35,181	1,942	56,603	19,562	36,359	1,437	57,358
---NORTHEAST	3,144	9,428	224	12,796	3,333	9,730	135	13,198
BIG STONE	24,816	21,612	1,383	47,811	24,866	22,556	1,865	49,287
CHIPPEWA	53,169	30,919	1,546	85,634	53,367	32,359	1,914	87,640
DOUGLAS	15,271	46,115	636	62,022	15,339	47,498	895	63,732
GRANT	27,895	20,132	1,410	49,437	27,935	20,900	1,702	50,537
LAC QUI PARLE	56,858	37,134	1,352	95,344	56,942	38,806	2,877	98,625
OTTER TAIL	42,273	118,000	1,704	161,977	42,416	121,754	2,368	166,538
POPE	28,097	41,838	765	70,700	28,171	43,250	1,692	73,113
STEVENS	39,300	53,526	1,240	94,066	39,358	55,821	2,470	97,649
SWIFT	59,914	52,920	1,091	113,925	60,030	55,286	3,956	119,272
TRAVERSE	27,718	16,222	1,657	45,597	27,758	16,925	2,260	46,943
WILKIN	48,361	12,609	2,292	63,262	48,452	13,151	2,602	64,205
YELLOW MEDICINE	64,856	47,251	1,150	113,257	64,999	49,425	3,291	117,715
---WEST CENTRAL	488,528	498,278	16,226	1,003,032	489,633	517,731	27,892	1,035,256
BENTON	6,439	37,224	191	43,854	6,465	38,408	591	45,464
CARVER	13,090	54,032	202	67,324	13,240	55,576	396	69,212
KANDIYOHI	48,306	86,512	1,448	136,266	48,510	90,099	3,210	141,819
MCLEOD	37,001	60,001	337	97,339	37,305	61,954	990	100,249
MEEKER	36,492	63,558	543	100,593	36,689	66,000	1,541	104,230
MORRISON	9,609	65,247	244	75,100	9,627	67,253	708	77,588
RENVILLE	126,457	62,496	1,371	190,324	127,210	65,315	3,767	196,292
SCOTT	16,353	34,240	431	51,024	16,471	35,337	452	52,260
SHERBURNE	15,076	15,012	248	30,336	15,207	15,616	700	31,523
SIBLEY	55,597	68,195	489	124,281	55,984	70,885	1,429	128,298
STEARNS	26,543	179,998	563	207,104	26,710	185,859	1,367	213,936
TODD	14,407	66,497	192	81,096	14,437	68,416	445	83,298
WADENA	4,756	22,993	163	27,912	4,794	23,824	284	28,902
WRIGHT	21,313	64,456	287	86,056	21,404	66,426	556	88,386
---CENTRAL	431,439	880,461	6,709	1,318,609	434,053	910,968	16,436	1,361,457

MINNESOTA CASH INCOME RECEIVED BY FARMERS, BY COUNTY (CONT'D)

DISTRICT AND COUNTY	1981				1982			
	CROPS	LIVESTOCK 1/	GOVERNMENT PAYMENTS	TOTAL	CROPS	LIVESTOCK 1/	GOVERNMENT PAYMENTS	TOTAL
	1,000 Dollars				1,000 Dollars			
AITKIN	3,115	14,379	116	17,610	3,123	14,867	63	18,053
ANOKA	9,326	11,113	69	20,508	9,992	11,562	207	21,761
CARLTON	1,855	10,007	210	12,072	1,910	10,264	86	12,260
CHISAGO	8,774	20,885	245	29,904	8,914	21,524	693	31,131
CROW WING	2,367	9,487	123	11,977	2,390	9,791	178	12,359
HENNEPIN	16,743	22,376	69	39,188	18,367	23,044	106	41,517
ISANTI	11,141	16,012	318	27,471	11,164	16,547	736	28,447
KANABEC	3,155	19,241	89	22,485	3,160	19,795	135	23,090
MILLE LACS	4,572	29,127	100	33,799	4,586	29,898	195	34,679
PINE	4,688	31,692	148	36,528	4,759	32,577	239	37,575
RAMSEY	2,997	227		3,224	3,749	240		3,989
WASHINGTON	16,802	19,881	254	36,937	18,143	20,560	574	39,277
---EAST CENTRAL	85,535	204,427	1,741	291,703	90,257	210,669	3,212	304,138
COTTONWOOD	62,811	59,680	727	123,218	63,055	62,357	2,958	128,370
JACKSON	73,391	75,197	492	149,080	73,507	78,766	2,621	154,894
LINCOLN	23,301	42,526	437	66,264	23,343	44,304	1,305	68,952
LYON	45,187	80,500	944	126,631	45,285	84,106	2,482	131,873
MURRAY	51,108	76,242	701	128,051	51,194	79,495	1,406	132,095
NOBLES	55,500	95,803	682	151,985	55,603	100,177	2,993	158,773
PIPESTONE	21,203	49,673	466	71,342	21,241	51,749	989	73,979
REDWOOD	91,258	74,612	838	166,708	91,634	77,956	2,918	172,508
ROCK	31,893	89,280	359	121,532	31,944	93,127	1,515	126,586
---SOUTHWEST	455,652	643,513	5,646	1,104,811	456,806	672,037	19,187	1,148,030
BLUE EARTH	82,209	47,464	3,874	133,547	82,509	49,766	3,476	135,751
BROWN	50,469	67,138	979	118,586	50,720	70,006	2,654	123,380
FARIBAULT	82,213	58,372	335	140,920	79,740	61,218	4,576	145,534
FREEBORN	79,474	64,659	887	145,020	79,843	67,733	5,266	152,842
LESUEUR	38,483	41,168	492	80,143	38,694	42,928	1,770	83,392
MARTIN	86,518	82,309	805	169,632	86,881	86,294	5,269	178,444
NICOLLET	44,157	44,258	554	88,969	44,378	46,152	2,188	92,718
RICE	31,257	57,564	1,070	89,891	31,419	59,628	1,196	92,243
STEELE	37,378	46,791	589	84,758	37,743	48,651	2,453	88,847
WASECA	50,463	30,110	771	81,344	50,674	31,423	3,027	85,124
WATONWAN	50,027	36,779	422	87,228	50,183	38,539	2,078	90,800
---SOUTH CENTRAL	632,648	576,612	10,778	1,220,038	632,784	602,338	33,953	1,269,075
DAKOTA	37,623	39,770	661	78,054	38,576	41,137	1,967	81,680
DODGE	37,849	45,205	751	83,805	38,352	46,905	3,393	88,650
FILLMORE	33,609	105,756	770	140,135	33,741	110,095	3,353	147,189
GOODHUE	32,668	84,363	725	117,756	33,059	87,046	1,623	121,728
HOUSTON	7,564	64,628	331	72,523	7,690	67,036	912	75,638
MOWER	56,320	64,126	846	121,292	56,634	66,979	4,087	127,700
OLMSTED	27,670	65,045	280	92,995	28,059	67,393	2,048	97,500
WABASHA	17,185	54,638	409	72,232	17,573	56,461	1,142	75,176
WINONA	15,662	78,779	460	94,901	16,138	81,296	1,530	98,964
---SOUTHEAST	266,150	602,310	5,233	873,693	269,822	624,348	20,055	914,225
***MINNESOTA	3,116,495	3,636,839	79,121	6,832,455	3,131,586	3,777,513	182,857	7,091,956

1/ Includes estimates of inter-farm and intra-state sales of livestock resulting in larger total cash receipts than shown in USDA estimates on previous pages.

SOURCE: BUREAU OF ECONOMIC ANALYSIS, U.S. DEPT. OF COMMERCE, WASHINGTON, D.C.

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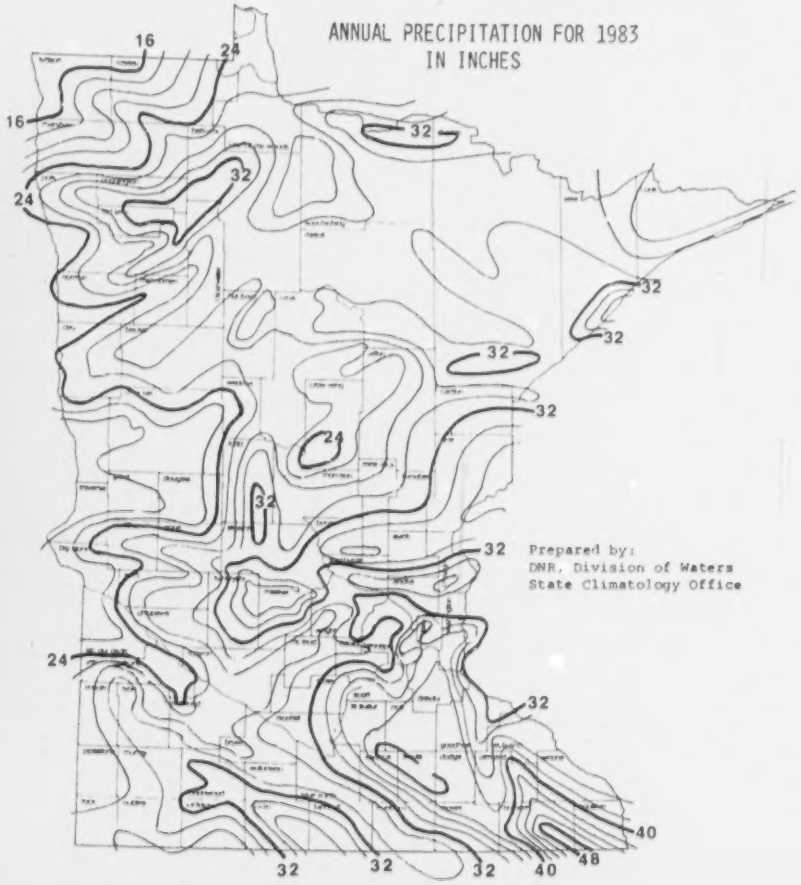
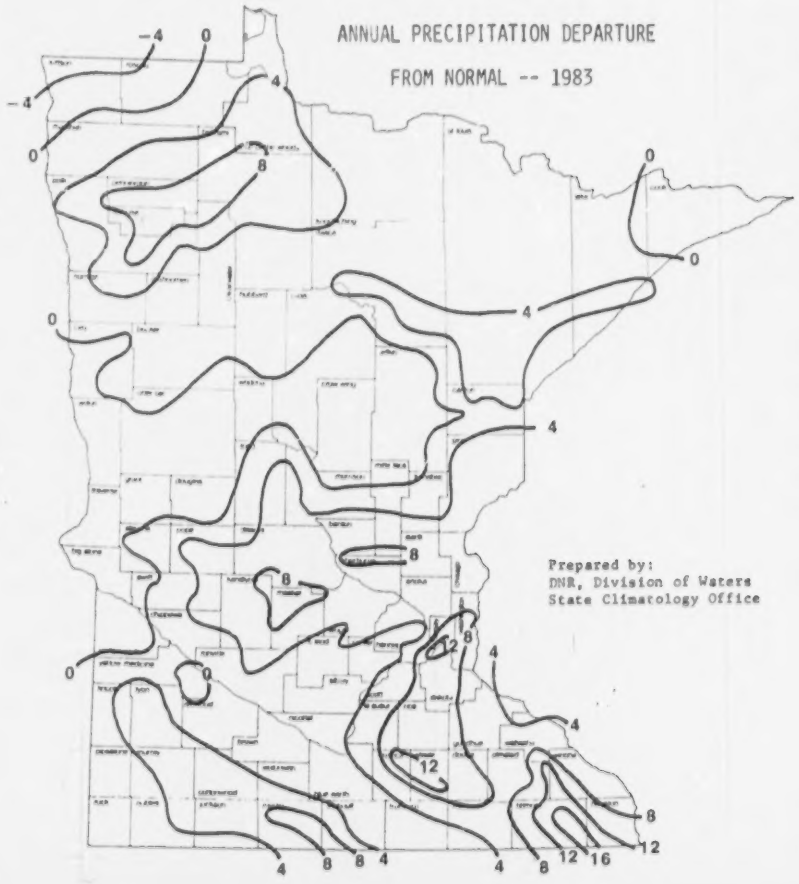
CLIMATIC SUMMARY

The annual Minnesota precipitation for 1983 showed wet conditions as a whole across the state. The statewide average precipitation for 398 stations was 30.04 inches. This amount is 4.38 inches above the state's 47-year areal weighted mean precipitation of 25.66 inches. There were, in general, 4 wet areas and 2 areas that were slightly dry. The extreme wet areas were in Fillmore county, with 18 inches above normal and a small strip in Waseca and Steele counties with 14 inches above normal. However, the entire southeast was 4 inches above normal with at least half of the area with 8 inches above normal. A wet strip oriented southeast from Lyon county into Iowa; another area from the central part of the state generally from Stearns-Kandiyohi counties east into Wisconsin; a narrow wet area from Grand Rapids to Duluth through Two Harbors; and a wet area generally from western Polk county through Red Lake and Pennington counties, which greatly reduced crop production throughout this area due to the late spring and heavy August rains.

The wettest location in 1983 was Harmony with 50.83 inches. This is the 3rd wettest annual precipitation amount recorded in Minnesota. The wettest year and location was 51.52 in 1911 at Grand Meadow and the 2nd wettest was 50.86 inches in 1968 at Beaver. The driest location in 1983 was at Caribou, along the Canadian border, with 14.63 inches. The precipitation map was prepared from 398 reports from National Weather Service, Minnesota Forestry Districts, and Soil and Water Conservation District observers.





AVERAGE FROST DATES IN MINNESOTA 1/

District and station	County	Average date of last temperature occurrence in spring of:			Average date of first temperature occurrence in fall of:			Number of days between average last spring and first fall occurrence of:		
		24°F	28°F	32°F	32°F	28°F	24°F	32°F	28°F	24°F
Northwest District (1):										
Ada	Norman	APR 29	MAY 9	MAY 23	SEP 20	SEP 30	OCT 8	120	144	162
Argyle	Marshall	MAY 3	MAY 12	MAY 24	SEP 17	SEP 29	OCT 7	116	140	157
Crookston	Polk	APR 29	MAY 9	MAY 22	SEP 21	OCT 1	OCT 11	122	145	165
Detroit Lakes	Becker	APR 28	MAY 8	MAY 20	SEP 22	OCT 3	OCT 14	125	148	169
Fosston	Polk	MAY 1	MAY 10	MAY 24	SEP 16	SEP 30	OCT 9	115	143	161
Hallock	Kittson	MAY 10	MAY 16	MAY 28	SEP 15	SEP 26	OCT 2	110	133	145
Moorhead	Clay	APR 22	MAY 3	MAY 12	SEP 28	OCT 8	OCT 16	139	158	177
Red Lake Falls	Red Lake	MAY 3	MAY 14	MAY 23	SEP 16	SEP 27	OCT 7	116	136	157
Roseau	Roseau	MAY 6	MAY 16	MAY 26	SEP 13	SEP 23	OCT 6	110	130	153
Warroad	Roseau	MAY 3	MAY 12	MAY 24	SEP 19	SEP 30	OCT 9	118	141	159
North Central District (2):										
Baudette	Lake of the Woods	MAY 1	MAY 13	MAY 26	SEP 15	SEP 28	OCT 6	112	138	158
Bemidji	Beltrami	MAY 1	MAY 17	MAY 29	SEP 13	SEP 28	OCT 3	107	134	155
Big Falls	Koochiching	MAY 4	MAY 17	JUN 4	SEP 7	SEP 18	OCT 4	95	124	153
Grand Rapids	Itasca	MAY 6	MAY 17	MAY 30	SEP 9	SEP 23	OCT 3	102	129	150
Park Rapids	Hubbard	MAY 1	MAY 11	MAY 21	SEP 20	OCT 3	OCT 9	122	145	161
Northeast District (3):										
Babbitt	St. Louis	MAY 1	MAY 12	MAY 20	SEP 24	OCT 8	OCT 16	127	149	168
Duluth (Airport)	St. Louis	MAY 3	MAY 8	MAY 22	SEP 24	OCT 6	OCT 17	125	151	167
Grand Marais	Cook	APR 25	MAY 11	MAY 23	SEP 29	OCT 13	OCT 25	129	155	183
Meadowlands	St. Louis	MAY 11	MAY 20	JUN 4	AUG 31	SEP 16	OCT 2	68	119	144
Two Harbors	Lake	APR 21	MAY 3	MAY 15	OCT 5	OCT 17	OCT 31	143	167	193
Virginia	St. Louis	MAY 4	MAY 13	MAY 26	SEP 18	SEP 29	OCT 9	115	139	158
West Central District (4):										
Alexandria	Douglas	APR 19	MAY 1	MAY 12	SEP 30	OCT 8	OCT 25	141	160	189
Beardsley	Big Stone	APR 25	MAY 6	MAY 17	SEP 23	OCT 2	OCT 12	129	149	167
Campbell	Wilkin	APR 28	MAY 5	MAY 18	SEP 22	SEP 30	OCT 7	127	148	162
Canby	Yellow Medicine	APR 18	APR 29	MAY 10	OCT 2	OCT 10	OCT 22	145	164	187
Fergus Falls	Otter Tail	APR 23	MAY 2	MAY 13	SEP 25	OCT 6	OCT 18	135	157	178
Montevideo	Lac Qui Parle	APR 16	APR 28	MAY 7	OCT 1	OCT 13	OCT 24	147	168	191
Morris	Stevens	APR 23	MAY 6	MAY 15	SEP 25	OCT 2	OCT 14	133	149	174
Wheaton	Traverse	APR 24	MAY 4	MAY 10	SEP 25	OCT 3	OCT 15	138	152	172
Central District (5):										
Bird Island	Renville	APR 14	APR 27	MAY 9	SEP 30	OCT 10	OCT 22	144	166	191
Little Falls	Morrison	APR 22	APR 30	MAY 10	SEP 26	OCT 7	OCT 18	139	160	180
St. Cloud	Stearns	APR 18	APR 24	MAY 9	SEP 29	OCT 13	OCT 21	143	172	186
Wadena	Wadena	APR 27	MAY 8	MAY 22	SEP 21	SEP 30	OCT 12	122	145	168
Willmar	Kandiyohi	APR 19	APR 28	MAY 8	SEP 29	OCT 7	OCT 23	144	162	187
East Central District (6):										
Brainerd	Crow Wing	APR 24	MAY 4	MAY 16	SEP 24	SEP 30	OCT 14	131	149	173
Cambridge	Isanti	APR 20	APR 29	MAY 13	SEP 26	OCT 5	OCT 17	136	169	170
Hinckley	Pine	APR 22	MAY 4	MAY 19	SEP 24	OCT 3	OCT 14	128	152	175
Maple Plain	Hennepin	APR 16	APR 26	MAY 7	OCT 5	OCT 14	OCT 26	151	171	193
Milaca	Mille Lacs	APR 22	MAY 3	MAY 12	SEP 25	OCT 8	OCT 18	136	158	179
Moose Lake	Carlton	APR 30	MAY 15	MAY 24	SEP 13	SEP 27	OCT 13	112	135	166
Mora	Kanabec	APR 22	MAY 5	MAY 14	SEP 26	OCT 2	OCT 17	135	150	178
Southwest District (7):										
Pipestone	Pipestone	APR 20	MAY 3	MAY 9	OCT 1	OCT 9	OCT 22	145	159	185
Redwood Falls	Redwood	APR 14	APR 26	MAY 3	OCT 3	OCT 15	OCT 23	153	172	192
Tracy	Lyon	APR 17	APR 30	MAY 8	OCT 6	OCT 15	OCT 23	151	168	179
Worthington	Nobles	APR 15	APR 30	MAY 7	OCT 4	OCT 16	OCT 23	150	169	191
South Central District (8):										
Albert Lea	Freeborn	APR 6	APR 20	MAY 3	OCT 6	OCT 21	OCT 28	156	184	205
Fairmont	Martin	APR 11	APR 25	MAY 5	OCT 8	OCT 18	OCT 27	156	176	199
Faribault	Rice	APR 17	APR 27	MAY 6	OCT 5	OCT 17	OCT 25	152	173	191
New Ulm	Brown	APR 19	MAY 1	MAY 13	SEP 27	OCT 6	OCT 21	137	158	185
St. Peter	Nicollet	APR 10	APR 28	MAY 9	SEP 30	OCT 12	OCT 23	144	167	196
Waseca	Waseca	APR 18	APR 28	MAY 9	SEP 29	OCT 10	OCT 23	143	165	188
Winnebago	Faribault	APR 13	APR 28	MAY 5	OCT 6	OCT 18	OCT 27	154	173	197
Southeast District (9):										
Farmington	Dakota	APR 15	APR 25	MAY 9	OCT 1	OCT 10	OCT 22	145	168	190
Grand Meadow	Mower	APR 14	MAY 1	MAY 10	SEP 29	OCT 11	OCT 25	142	163	194
Winona	Winona	APR 2	APR 17	APR 28	OCT 9	OCT 22	NOV 2	164	188	215
Zumbrota	Goodhue	APR 19	MAY 3	MAY 14	SEP 30	OCT 7	OCT 19	139	157	183

1/ From data prepared by the National Weather Service Forecast Office, Minneapolis, Minnesota.

SECTION II.

MINNESOTA GROWN

CROPS

Mostly because of the PIK program, Minnesota's 1983 corn production of 367.1 million bushels fell 50% below 1982. This was the smallest corn crop since the drought of 1976. Acres for grain at 4.4 million were the least harvested since 1969. Average yields of 84 bushels per acre were the lowest since 1976 and were caused by corn borer and wind damage. The crop, however, escaped most of the drought damage encountered by many major corn producing states.

Production of 1983 soybeans at 147.2 million bushels was down 14% from the 1982 record. Yields of 32.0 bushels per acre were down 3.5 bushels from a year earlier.

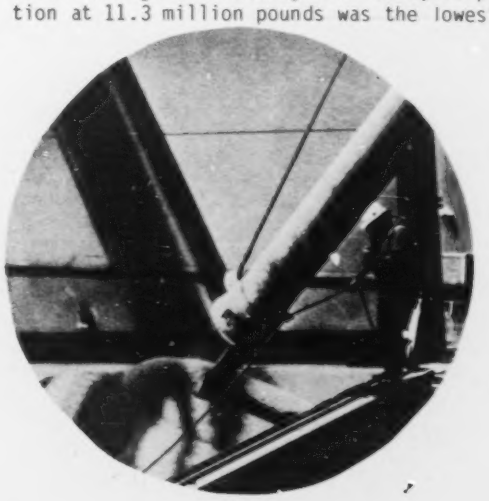
Minnesota's 1983 wheat crop totaled 78.96 million bushels, 38% below a year ago. By types, production of spring wheat fell 38% to 75.11 million bushels, the lowest level since 1973. Yield slipped 3 bushels from 1982 to 37.0. Durum wheat yield of 35.0 bushels per acre was down 4 bushels from a year ago; production of 1.23 million bushels was down 60%. Winter wheat production at 2.63 million bushels was 12% lower than a year earlier but yield of 35.0 bushels per acre was up 1/2 bushel.

Oats production of 76.95 million bushels was 28% below 1982 and yield at 57.0 bushels per acre fell 9 bushels. The large decrease was mainly due to the PIK program acres that were not harvested. This is the smallest production since 1934.

Barley yield of 53.0 bushels per acre was 5 bushels lower than 1982. Production of 41.34 million bushels was down 19% from a year ago.

Minnesota rye growers produced a crop of 4.96 million bushels, 50% more than 1982. The average yield was 31.0 bushels per acre.

All sunflower acreage of 250,000 was down 54% from 1982. Production of 264.3 million pounds was down 61% while average sunflower yields of 1,106 pounds per acre were down 223 pounds from 1982. Non-oil production at 11.3 million pounds was the lowest since estimates started in 1967.



Flax production of 938,000 bushels was down 43% from 1982.

Sugarbeet tonnage of 4.66 million tons was down 1% from a year earlier. Yield of 18.0 tons per acre was down 0.8 ton per acre.

All hay production in Minnesota at 8.32 million tons was up 1%.

Dry edible bean production dropped 52% from 1982 to 452.0 thousand hundredweight. Acreage was estimated at 42,000 planted and 39,000 harvested. Yield per acre was estimated at 1,160 pounds.

MINNESOTA & U.S. CROP PRODUCTION RECORDS

Crop	Plantings (1,000 Acres)		Yield Per Acre		Production (1,000 Units)	
CORN:						
Minnesota	7,700	1981	113.0 Bu.	1982	744,700 Bu.	1981
United States	113,024	1932	114.8 Bu.	1982	8,397,334 Bu.	1982
SOYBEANS:						
Minnesota	5,150	1979	36.0 Bu.	1978	171,465 Bu.	1982
United States	72,162	1982	32.2 Bu.	1982	2,276,976 Bu.	1982
ALL WHEAT:						
Minnesota	6,375 1/	1899	39.9 Bu.	1981	144,025 Bu.	1981
United States	88,928	1981	38.6 Bu.	1982	2,808,737 Bu.	1982
BARLEY:						
Minnesota	2,380	1935	58.0 Bu.	1982	59,670 Bu.	1935
United States	19,686	1942	57.3 Bu.	1982	522,387 Bu.	1982
OATS:						
Minnesota	5,466	1945	68.0 Bu.	1977	242,640 Bu.	1945
United States	47,494	1955	58.4 Bu.	1982	1,523,851 Bu.	1945
ALL HAY:						
Minnesota	4,721 1/	1941	3.02 Tons	1979	8,910 Tons	1979
United States	77,639 1/	1944	2.51 Tons	1982	152,424 Tons	1982
FLAX:						
Minnesota	1,758	1943	15.5 Bu.	1978	19,102 Bu.	1948
United States	6,182	1943	14.3 Bu.	1982	54,803 Bu.	1948
RYE:						
Minnesota	665	1937	35.0 Bu.	1973	23,522 Bu.	1922
United States	7,235	1937	29.1 Bu.	1982	125,144 Bu.	1918
SUGARBEETS:						
Minnesota	265	1978	18.9 Tons	1978	4,971 Tons	1978
United States	1,647	1969	22.2 Tons	1981	29,704 Tons	1975
ALL SUNFLOWERS:						
Minnesota	1,400	1979	1,558 Lbs.	1977	1,870,620 Lbs.	1979
United States	5,555	1979	1,365 Lbs.	1978	7,296,110 Lbs.	1979

1/ Harvested acres.

MINNESOTA STOCKS & CROP PRICE RECORDS

Crop	Farm Stocks (1,000 Bu.)	Off-Farm Stocks (1,000 Bu.)	High Monthly Price	Low Monthly Price
Corn	763,880 Bu. Jan. 1, 1983	170,367 Bu. Jan. 1, 1983	$3.34 Bu. October 1974	$0.13 Bu. February 1933
Soybeans	120,026 Bu. Jan. 1, 1983	56,769 Bu. Jan. 1, 1970	$10.00 Bu. June 1973	$0.65 Bu. August 1939
All Wheat	136,954 Bu. Oct. 1, 1982	90,136 Bu. Oct. 1, 1964	$5.38 Bu. February 1974	$0.33 Bu. December 1932
Barley	52,061 Bu. Oct. 1, 1982	33,651 Bu. Oct. 1, 1970	$3.82 Bu. November 1974	$0.16 Bu. Feb.,March 1933
Oats	208,670 Bu. Oct. 1, 1945	78,566 Bu. Oct. 1, 1971	$2.04 Bu. March 1981	$0.10 Bu. October 1932
Flax	6,695 Bu. Oct. 1, 1950	21,538 Bu. Oct. 1, 1949	$10.80 Bu. March, Aug.1974	$0.82 Bu. August 1932
Rye	4,356 Bu. Dec. 1, 1940	12,720 Bu. Oct. 1, 1972	$2.93 Bu.1/ 1981	$0.19 Bu. December 1932

1/ Highest annual price since monthly prices were discontinued in June 1976.

RECORDS SET IN MINNESOTA & U.S. CROPS

MINNESOTA CROP ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Farm Value of Production
			CORN FOR GRAIN			
	1,000 Acres 1/	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.2/	1,000 Dols.
1979	6,900	6,060	100.0	606,000	2.26	1,369,560
1980	7,250	6,290	97.0	610,130	2.85	1,738,871
1981	7,700	6,770	110.0	744,700	2.33	1,735,151
1982	7,300	6,500	113.0	734,500	2.63	1,931,735
1983	5,100	4,370	84.0	367,080	3.10 3/	1,137,948
			CORN FOR SILAGE			
		1,000 Acres	Tons	1,000 Tons		
1979	-----	750	13.5	10,125		
1980	-----	880	12.0	10,560	----	---
1981	-----	810	13.5	10,935	----	---
1982	-----	730	13.5	9,855	----	---
1983	-----	650	11.5	7,475	----	---
			SOYBEANS			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.2/	1,000 Dols.
1979	5,150	5,080	32.0	162,560	6.00	975,360
1980	4,800	4,760	31.5	149,940	7.23	1,084,066
1981	4,460	4,350	32.0	139,200	5.77	803,184
1982	4,950	4,830	35.5	171,465	5.81	996,212
1983	4,650	4,600	32.0	147,200	7.70 3/	1,133,440
			OATS			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.2/	1,000 Dols.
1979	1,650	1,490	57.0	84,930	1.26	107,012
1980	1,650	1,450	57.0	82,650	1.70	140,505
1981	1,600	1,430	63.0	90,090	1.82	163,964
1982	1,800	1,630	66.0	107,580	1.36	146,309
1983	2,800	1,350	57.0	76,950	1.60 3/	123,120
			BARLEY			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.2/	1,000 Dols.
1979	780	770	53.0	40,810	2.15	87,742
1980	900	815	42.5	34,638	2.75	95,255
1981	1,050	1,030	56.0	57,680	2.21	127,473
1982	900	880	58.0	51,040	2.04	104,122
1983	950	780	53.0	41,340	2.40 3/	99,216
			RYE			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.2/	1,000 Dols.
1979	100	91	25.0	2,275	2.15	4,891
1980	85	76	25.0	1,900	2.80	5,320
1981	100	93	31.0	2,883	2.93	8,447
1982	120	100	33.0	3,300	2.31	7,623
1983	200	160	31.0	4,960	2.05 3/	10,168

1/ Acreage planted to corn is for "all purposes". 2/ Season average prices include an allowance for loans outstanding and purchases by the government valued at average loan and purchase rate but exclude deficiency payments, if any. 3/ Preliminary.

MINNESOTA CROP ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE (CONT'D)

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Farm Value Of Production
			ALL WHEAT			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.1/	1,000 Dols.
1979	2,640	2,578	35.1	90,384	3.71	335,284
1980	3,615	3,169	32.4	102,556	4.04	414,575
1981	3,670	3,610	39.9	144,025	3.72	536,118
1982	3,240	3,184	39.8	126,809	3.75	475,451
1983	2,340	2,140	36.9	78,960	3.89 3/	307,481
			SPRING WHEAT (OTHER THAN DURUM)			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.1/	1,000 Dols.
1979	2,500	2,450	35.0	85,750	3.69	316,418
1980	3,400	2,980	32.5	96,850	3.99	386,432
1981	3,400	3,350	40.0	134,000	3.73	499,820
1982	3,070	3,020	40.0	120,800	3.75	453,000
1983	2,200	2,030	37.0	75,110	3.90 3/	292,929
			DURUM WHEAT			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Buy.1/	1,000 Dols.
1979	80	77	37.0	2,849	4.36	12,422
1980	140	120	28.0	3,360	5.59	18,782
1981	140	135	40.0	5,400	3.63	19,602
1982	80	78	39.0	3,042	3.83	11,651
1983	40	35	35.0	1,225	3.95 3/	4,839
			WINTER WHEAT			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.1/	1,000 Dols.
1979	60	51	35.0	1,785	3.61	6,444
1980	75	69	34.0	2,346	3.99	9,361
1981	130	125	37.0	4,625	3.61	16,696
1982	90	86	34.5	2,967	3.64	10,800
1983	100	75	35.0	2,625	3.70 3/	9,713
			FLAXSEED			
	1,000 Acres	1,000 Acres	Bushels	1,000 Bushels	Dols.Per Bu.1/	1,000 Dols.
1979	160	153	14.5	2,219	6.02	13,358
1980	140	125	12.5	1,563	7.18	11,222
1981	115	104	12.5	1,300	6.88	8,944
1982	120	110	15.0	1,650	5.20	8,580
1983	85	75	12.5	938	6.70 3/	6,285
			SUGARBEETS			
	Acres	Acres	Tons	Tons	Dols.Per Ton 2/	1,000 Dols.
1979	249,000	244,000	15.5	3,782,000	31.80	120,268
1980	260,000	243,000	14.9	3,621,000	44.10	159,686
1981	259,000	256,000	17.2	4,403,000	20.00	88,060
1982	253,000	252,000	18.8	4,738,000	34.30	162,513
1983	262,000	259,000	18.0	4,662,000	4/	4/

1/ Season average prices include an allowance for loans outstanding and purchases by the government valued at average loan and purchase rate but exclude deficiency payments, if any.
2/ Excludes Sugar Act payments.
3/ Preliminary.
4/ Not available.

MINNESOTA CROP ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE (CONT'D)

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Farm Value Of Production
			ALL SUNFLOWERS			
	1,000 Acres	1,000 Acres	Pounds	1,000 Lbs.	Dols. Per Cwt.	1,000 Dols.
1979	1,400	1,347	1,389	1,870,620	9.59	179,443
1980	920	890	1,184	1,053,600	11.10	117,036
1981	735	713	1,155	823,550	11.00	90,423
1982	540	508	1,329	675,240	9.38	63,337
1983	250	239	1,106	264,250	13.20 1/	34,988
			OIL SUNFLOWERS			
	1,000 Acres	1,000 Acres	Pounds	1,000 Lbs.	Dols. Per Cwt.	1,000 Dols.
1979	1,340	1,290	1,390	1,793,100	9.48	169,986
1980	860	835	1,190	993,650	11.00	109,302
1981	650	631	1,170	738,270	10.70	78,995
1982	505	475	1,350	641,250	9.31	59,700
1983	240	230	1,100	253,000	13.10 1/	33,143
			NON-OIL SUNFLOWERS			
	1,000 Acres	1,000 Acres	Pounds	1,000 Lbs.	Dols. Per Cwt.	1,000 Dols.
1979	60	57	1,360	77,520	12.20	9,457
1980	60	55	1,090	59,950	12.90	7,734
1981	85	82	1,040	85,280	13.40	11,428
1982	35	33	1,030	33,990	10.70	3,637
1983	10	9	1,250	11,250	16.40 1/	1,845
			ALL HAY			
		1,000 Acres	Tons	1,000 Tons	Dols. Per Ton	1,000 Dols.
1979	-----	2,950	3.02	8,910	36.50	325,215
1980	-----	2,950	2.41	7,115	56.00	398,440
1981	-----	2,860	2.87	8,206	68.00	558,008
1982	-----	2,870	2.88	8,264	67.50	557,820
1983	-----	2,830	2.94	8,316	67.00 1/	557,172
			ALFALFA HAY			
		1,000 Acres	Tons	1,000 Tons	Dols. Per Ton	1,000 Dols.
1979	-----	2,150	3.40	7,310	-----	-------
1980	-----	2,100	2.70	5,670	-----	-------
1981	-----	2,000	3.20	6,400	-----	-------
1982	-----	1,950	3.20	6,240	-----	-------
1983	-----	1,900	3.30	6,270	-----	-------

			ALL OTHER HAY			
		1,000 Acres	Tons	1,000 Tons	Dols. Per Ton	1,000 Dols.
1979	-----	800	2.00	1,600	-----	-------
1980	-----	850	1.70	1,445	-----	-------
1981	-----	860	2.10	1,806	-----	-------
1982	-----	920	2.20	2,024	------	-------
1983		930	2.20	2,046		

1/ Preliminary.

MINNESOTA CROP ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE (CONT'D)

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Farm Value of Production
			ALL POTATOES			
	Acres	Acres	Cwt.	1,000 Cwt.	Dols. Per Cwt.	1,000 Dols.
1979	76,400	74,300	198	14,716	3.11	45,782
1980	70,500	69,400	166	11,486	8.00	91,731
1981	79,200	76,100	196	14,947	4.90	72,868
1982	77,700	70,600	190	13,401	3.95	52,617
1983	75,700	67,600	172	11,639	4.95	57,150
			FALL POTATOES			
	Acres	Acres	Cwt.	1,000 Cwt.	Dols. Per Cwt.	1,000 Dols.
1979	70,000	68,000	190	12,920	3.05	39,406
1980	65,000	64,000	155	9,920	7.70	76,384
1981	73,000	70,000	190	13,300	4.55	60,515
1982	71,000	64,000	180	11,520	3.80	43,776
1983	70,500	62,500	165	10,313	NA	
			SUMMER POTATOES			
	Acres	Acres	Cwt.	1,000 Cwt.	Dols. Per Cwt.	1,000 Dols.
1979	6,400	6,300	285	1,796	3.55	6,376
1980	5,500	5,400	290	1,566	9.80	15,347
1981	6,200	6,100	270	1,647	7.50	12,353
1982	6,700	6,600	285	1,881	4.70	8,841
1983	5,200	5,100	260	1,326	NA	
			DRY EDIBLE BEANS			
	Acres	Acres	Pounds	1,000 Cwt.	Dols. Per Cwt.	1,000 Dols.
1979	38,000	36,000	1,560	562	19.30	10,847
1980	90,000	84,000	1,150	966	22.50	21,735
1981	110,000	103,000	1,240	1,277	21.90	27,966
1982	95,000	73,000	1,300	949	12.40	11,768
1983	42,000	39,000	1,160	452	23.70 1/	10,712
			RED CLOVER SEED			
		Acres	Pounds 2/	1,000 Lbs.	Dols. Per Cwt.	1,000 Dols.
1979	------	30,000	95	2,850	55.00	1,568
1980	------	30,000	100	3,000	55.50	1,665
1981	------	17,000	100	1,700	62.50	1,063
1982 3/						
			TIMOTHY SEED			
		Acres	Pounds 2/	1,000 Lbs.	Dols. Per Cwt.	1,000 Dols.
1979	------	56,000	275	15,400	34.00	5,236
1980	------	42,000	115	4,830	52.50	2,536
1981	------	50,000	310	15,500	20.50	3,178
1982 3/						

1/ Preliminary. 2/ Clean seed. 3/ Estimates discontinued in 1982. NA = Not Available.

MINNESOTA CROP ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE (CONT'D)

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Farm Value Of Production
			SWEET CORN FOR PROCESSING			
	Acres	Acres	Tons 1/	Tons 1/	Dols. Per Ton	1,000 Dols.
1979	110,000	98,300	5.72	562,280	46.70	26,258
1980	103,800	101,200	5.42	548,500	50.00	27,425
1981	112,800	105,200	5.45	573,340	57.30	32,852
1982	121,500	119,300	5.73	683,590	56.30	38,486
1983	111,200	108,400	4.60	498,640	52.90	26,378
			GREEN PEAS FOR PROCESSING			
	Acres	Acres	Tons 2/	Tons 2/	Dols. Per Ton	1,000 Dols.
1979	81,600	73,000	1.53	111,690	220.00	24,572
1980	70,800	66,300	1.18	78,230	244.00	19,088
1981	66,600	56,800	1.54	87,470	230.00	20,118
1982	65,100	60,800	1.60	97,280	236.00	22,958
1983	72,800	64,200	1.25	80,250	229.00	18,377
			ONIONS			
	Acres	Acres	Cwt.	1,000 Cwt.3/	Dols. Per Cwt.	1,000 Dols.
1979	1,000	480	260	125	3.83	360
1980	900	760	265	201	12.50	2,150
1981	850	750	265	199	9.64	1,581
1982	1,000	800	210	168	4.89	689
1983	850	790	200	158	13.10	1,703
			CARROTS FOR FRESH MARKET & PROCESSING			
	Acres	Acres	Cwt.	1,000 Cwt.	Dols. Per Cwt.	1,000 Dols.
1979	2,200	1,700	380	646	5.08	3,282
1980	1,700	1,300	280	494	7.38	3,644
1981	1,500	1,300	320	416	7.73	3,216
1982	1,800	1,500	370	555	7.23	4,013
1983	1,500	1,300	340	442	7.02	3,105
			COMMERCIAL APPLES			
Crop Year	Acreage Planted	Acreage Harvested	Utilized Production		Season Average Price	Farm Value Of Utilized Production
			Mil.Lbs.		Cents Per Lb.	1,000 Dols.
1979	---	---	15.0		18.0	2,700
1980	---	---	23.0		17.1	3,934
1981	---	---	21.0		19.3	4,057
1982	---	---	24.0		19.0	4,559
1983			21.0		21.6	4,532

1/ In husk. 2/ Shelled. 3/ Includes some quantities not marketed and excluded in computing value.
4/ Preliminary.

MINNESOTA CROP MARKETINGS: PERCENT BY MONTHS

CORN MARKETINGS

Crop Marketing Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1979-1980	5	7	12	4	8	4	5	7	12	13	13	10
1980-1981	15	10	6	13	5	6	9	6	8	9	7	6
1981-1982	10	16	5	7	6	7	7	7	11	8	8	8
1982-1983	4	14	9	7	8	6	6	7	12	9	9	9

SOYBEAN MARKETINGS

Crop Marketing Year	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1979-1980	6	16	3	7	5	8	6	5	10	13	11	10
1980-1981	12	24	6	4	9	5	5	9	7	5	7	7
1981-1982	7	13	8	5	5	5	6	13	12	8	9	9
1982-1983	5	9	9	6	7	6	5	7	7	9	16	14

ALL WHEAT MARKETINGS

Crop Marketing Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1979-1980	18	8	8	10	6	11	6	4	6	5	10	8
1980-1981	11	25	10	7	8	6	6	5	4	5	7	6
1981-1982	8	25	10	8	12	3	4	4	4	10	6	6
1982-1983	9	20	8	5	7	5	4	7	11	9	8	7

OATS MARKETINGS

1979-1980	13	16	8	8	3	10	4	4	6	6	9	13
1980-1981	21	17	7	5	5	6	9	8	8	4	4	6
1981-1982	15	19	8	6	4	5	4	9	7	10	4	9
1982-1983	10	33	9	3	3	6	6	4	5	7	7	7

BARLEY MARKETINGS

1979-1980	13	7	3	6	7	9	6	4	4	6	15	20
1980-1981	16	9	10	11	11	8	3	11	5	6	6	4
1981-1982	12	21	6	3	7	2	3	11	8	9	6	12
1982-1983	14	16	4	5	7	7	4	11	8	6	9	9

FLAX MARKETINGS

1979-1980	3	10	31	22	5	4	3	5	10	3	2	2
1980-1981	9	15	16	22	6	6	7	2	2	3	6	6
1981-1982	0	46	16	9	10	4	2	2	4	5	1	1
1982-1983	3	41	17	17	13	2	1	1	1	2	1	1

ALL HAY MARKETINGS

Crop Marketing Year	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
1979-1980	12	11	9	4	2	7	8	9	11	13	7	7
1980-1981	10	8	6	4	3	5	4	13	10	13	14	10
1981-1982	11	9	7	10	10	7	9	7	8	12	7	3
1982-1983	10	8	11	7	5	6	6	9	13	12	8	5

MINNESOTA GRAIN AND HAY STOCKS

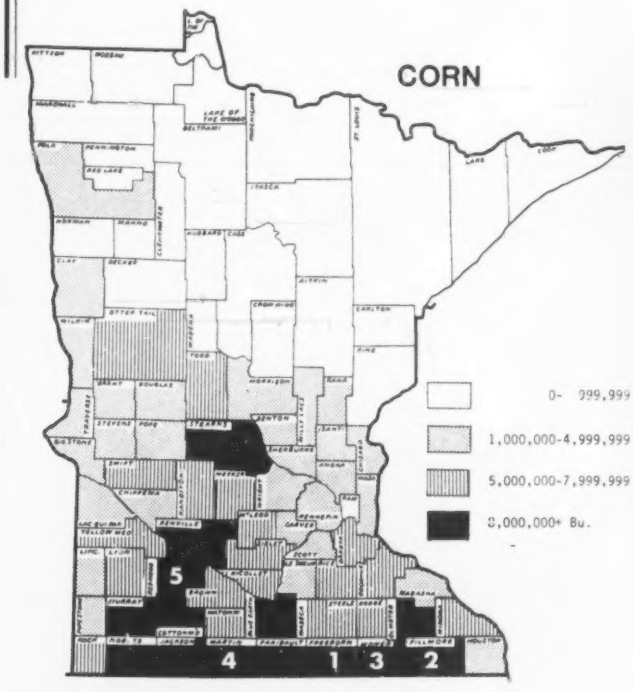
Year	On Farms				All Storage Positions			
	Jan. 1	April 1	June 1	Oct. 1	Jan. 1	April 1	June 1	Oct. 1
	1,000 Bushels				1,000 Bushels			
CORN STOCKS								
1980	545,400	406,020	309,060	169,680	678,734	526,120	408,970	243,385
1981	494,205	341,673	262,356	91,520	614,660	450,371	340,932	151,327
1982	610,654	469,161	394,691	238,304	745,030	590,789	482,651	332,133
1983	763,880	615,980	484,770	257,075	934,247	759,975	622,235	415,712
1984	440,496	304,676			569,529	415,053		
ALL WHEAT STOCKS								
1980	79,538	59,653	36,154	77,943	106,379	92,953	62,364	129,188
1981	68,713	53,329	37,946	125,302	110,338	90,992	64,221	175,897
1982	103,698	80,654	70,572	136,954	146,193	120,528	101,872	187,931
1983	112,860	92,571	71,013	110,544	154,142	132,240	104,418	157,508
1984	75,802	63,168			116,304	94,746		
SOYBEAN STOCKS								
1980	89,408	66,650	52,019	21,133 1/	137,001	105,430	79,569	37,688 1/
1981	79,468	65,974	52,479	23,990 1/	125,768	97,317	72,368	37,229 1/
1982	97,440	73,776	52,896	20,880 1/	140,797	112,288	77,180	33,995 1/
1983	120,026	94,306	72,015	20,576 1/	168,311	140,003	112,366	49,387 1/
1984	79,488	51,520			131,809	94,891		
OATS STOCKS								
1980	75,588	56,903	39,917	74,385	94,860	73,163	51,107	92,885
1981	61,988	40,499	29,754	70,270	76,993	52,706	36,049	79,598
1982	58,559	33,333	20,721	90,367	65,310	39,660	24,811	104,301
1983	68,851	48,411	34,426	76,950	81,724	57,322	40,734	93,893
1984	61,560	39,245			75,831	47,090		
BARLEY STOCKS								
1980	44,075	32,240	23,262	36,024	72,071	57,480	46,022	62,509
1981	24,939	18,358	12,816	49,605	49,869	43,120	33,094	73,970
1982	40,953	28,263	19,611	52,061	58,683	48,183	32,338	75,292
1983	46,957	38,280	33,686	51,675	67,071	57,361	50,809	77,815
1984	36,793	28,938			55,671	47,296		
RYE STOCKS								
1980	1,001	865	751	1,482	3,978	3,521	3,021	4,347
1981	779	228	171	750	2,294	1,628	1,041	2,222
1982	605	202	115	1,320	1,618	845	516	3,444
1983	1,122	693	528	2/	2,587	1,682	1,293	2/
FLAX STOCKS								
1980	999	843	555	1,172	3,703	3,009	1,995	3,657
1981	531	422	156	455	3,031	2,140	1,319	1,090
1982	299	182	156	792	1,574	1,246	596	1,222
1983	545	462	215	2/	930	807	316	2/

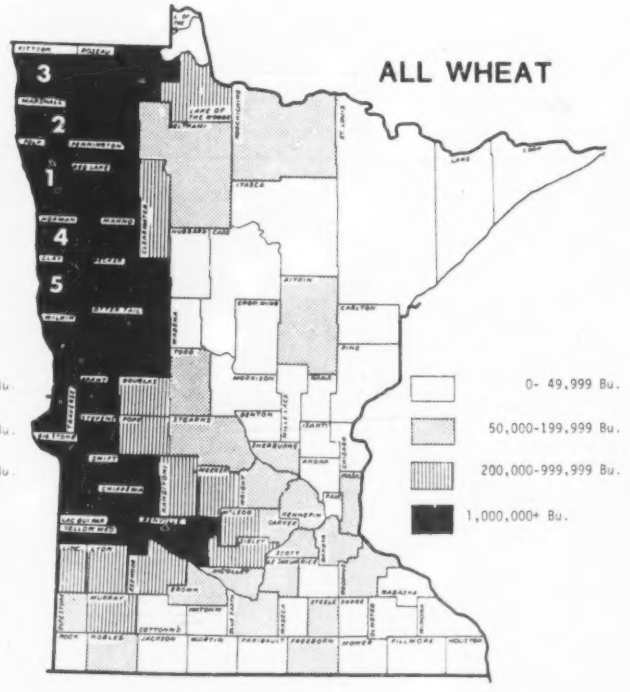
HAY STOCKS

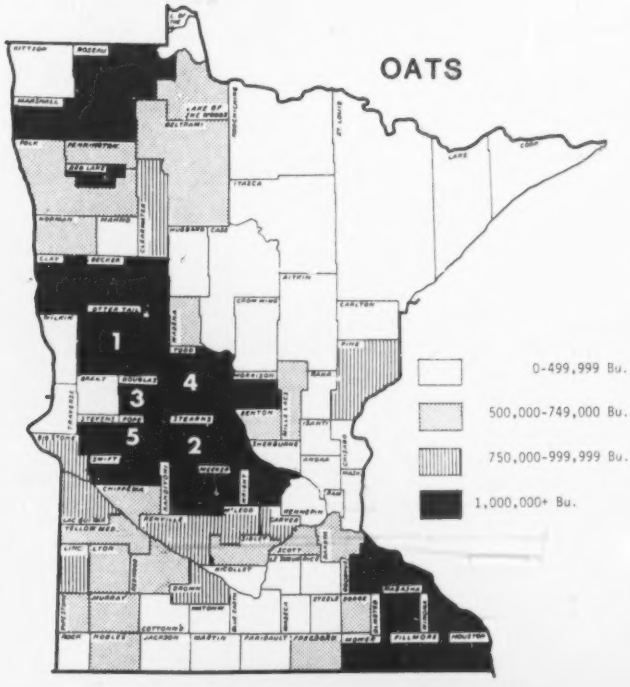
	Jan. 1	May 1	
	1,000 Tons		
1980	6,772	1,871	OFF-FARM HAY STOCKS
1981	4,696	1,210	NOT ESTIMATED
1982	5,662	1,395	
1983	5,206	1,405	
1984	4,906	1,497	

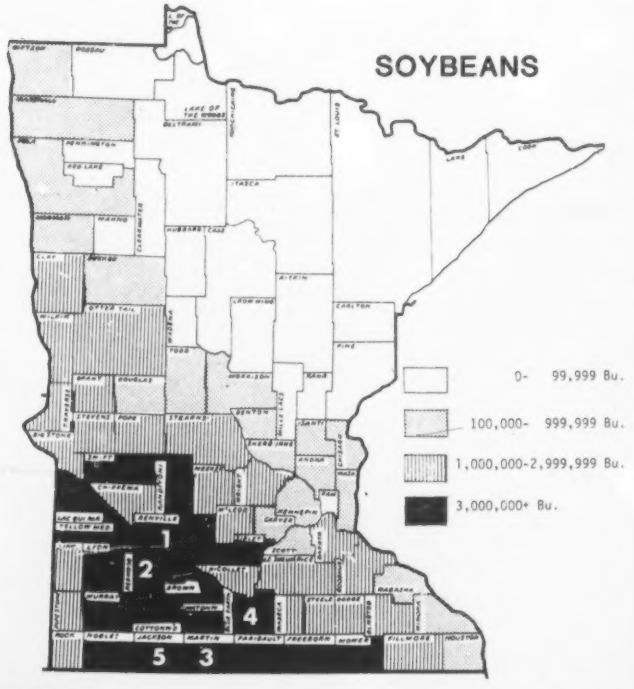
1/ September 1 stocks. 2/ Starting June 83, estimated annually.

GEOGRAPHIC DISTRIBUTION OF MAJOR MINNESOTA CROPS IN 1983









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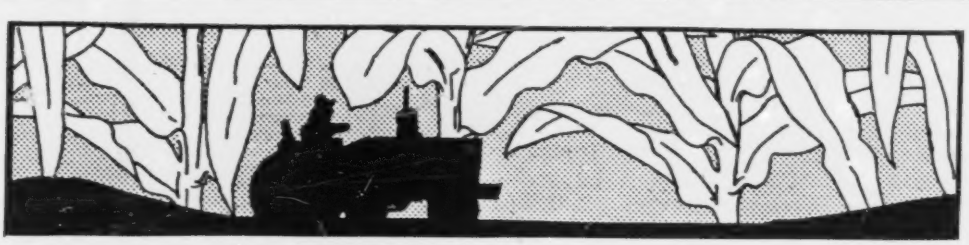
CORN: ACREAGE PLANTED FOR ALL PURPOSES, HARVESTED FOR GRAIN, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	30,500	17,900	13,800	11,000	70.0	58.0	966,000	638,000
CLAY	33,900	25,300	27,500	20,300	84.0	77.0	2,310,000	1,563,100
CLEARWATER	9,700	5,800	3,800	2,200	55.0	68.0	209,000	149,600
KITTSON	2,000	2,600	1,600	1,400	56.0	47.0	89,600	65,800
MAHNOMEN	13,900	7,200	9,100	4,000	57.0	64.0	518,700	256,000
MARSHALL	16,900	13,900	9,600	10,500	68.0	60.0	652,800	630,000
NORMAN	19,100	16,800	12,100	9,700	75.0	71.0	907,500	688,700
PENNINGTON	6,700	6,200	3,400	4,800	53.0	57.0	180,200	273,600
POLK	34,000	34,600	25,200	26,200	60.0	65.0	1,512,000	1,703,000
RED LAKE	13,500	13,500	7,500	8,100	70.0	53.0	525,000	429,300
ROSEAU	9,700	5,200	600	3,100	50.0	50.0	30,000	155,000
NW DIST.	189,900	149,000	114,200	101,300	69.2	64.7	7,900,800	6,552,100
BELTRAMI	8,500	5,100	3,900	2,100	57.0	74.0	222,300	155,400
CASS	10,800	4,100	5,300	1,800	80.0	61.0	424,000	109,800
HUBBARD	8,300	6,500	3,300	3,600	88.0	91.0	290,400	327,600
ITASCA	1,600	600	300	200	80.0	81.0	24,000	16,200
KOOCHICHING	2,800	1,400	200	100	68.0	74.0	13,600	7,400
LAKE OF WOODS	3,600	700	2,000	400	73.0	32.0	146,000	12,800
NC DIST.	35,600	18,400	15,000	8,200	74.7	76.7	1,120,300	629,200
ST LOUIS	1,200	800	100	100	68.0	60.0	6,800	6,000
NE DIST.	1,200	800	100	100	68.0	60.0	6,800	6,000
BIG STONE	47,400	32,200	44,000	29,300	83.0	75.0	3,652,000	2,197,500
CHIPPEWA	99,300	63,100	95,400	58,400	115.0	72.0	10,971,000	4,204,800
DOUGLAS	64,600	48,000	49,300	33,300	85.0	65.0	4,190,500	2,164,500
GRANT	37,000	26,100	31,700	21,700	90.0	79.0	2,853,000	1,714,300
LAC QUI PARLE	112,900	72,100	102,100	63,900	92.0	65.0	9,393,200	4,153,500
OTTER TAIL	174,100	134,500	128,900	90,800	84.0	70.0	10,827,600	6,356,000
POPE	100,400	63,100	88,400	52,000	102.0	80.0	9,016,800	4,160,000
STEVENS	86,100	66,900	79,800	58,400	101.0	85.0	8,059,800	4,964,000
SWIFT	136,300	91,700	129,600	85,700	112.0	76.0	14,515,200	6,513,200
TRAVERSE	30,600	22,600	28,500	19,900	75.0	64.0	2,137,500	1,273,600
WILKIN	31,500	24,900	28,700	22,200	90.0	67.0	2,583,000	1,487,400
YELLOW MEDICINE	167,100	110,100	162,100	102,300	118.7	71.0	19,235,700	7,263,300
WC DIST.	1,087,300	755,300	968,500	637,900	100.6	72.8	97,435,300	46,452,100
BENTON	79,000	48,800	62,100	36,600	99.0	77.0	6,147,900	2,817,600
CARVER	71,200	56,900	56,200	42,200	116.0	90.0	6,519,200	3,798,000
KANDIYOHI	157,700	105,200	146,700	93,200	120.0	77.0	17,604,000	7,176,400
MCLEOD	105,600	80,200	94,400	70,400	122.0	96.0	11,516,800	6,758,400
MEEKER	134,400	84,300	124,400	74,200	115.0	77.0	14,306,000	5,713,400
MORRISON	109,500	80,300	78,900	53,800	73.0	80.0	5,759,700	4,304,000
RENVILLE	182,500	129,200	179,600	123,700	132.0	90.0	23,707,200	11,133,000
SCOTT	59,700	37,700	49,300	29,800	120.0	85.0	5,916,000	2,533,000
SHERBURNE	40,100	31,600	34,100	25,300	101.0	77.0	3,444,100	1,948,100
SIBLEY	122,400	82,200	114,700	72,800	125.0	96.0	14,337,500	6,988,800
STEARNS	245,200	164,100	189,600	111,300	105.0	74.0	19,908,000	8,236,200
TODD	118,700	92,500	88,500	64,500	82.0	81.0	7,257,000	5,224,500
WADENA	36,500	24,100	24,500	14,000	78.0	51.0	1,911,000	714,000
WRIGHT	109,400	75,400	92,800	63,700	103.0	77.0	9,558,400	4,904,900
CENT. DIST.	1,571,900	1,092,500	1,335,800	875,500	110.7	82.5	147,892,800	72,250,300

CORN: ACREAGE PLANTED FOR ALL PURPOSES, HARVESTED FOR GRAIN, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
AITKIN	5,600	4,500	2,200	2,700	57.0	73.0	125,400	197,100
ANOKA	28,900	22,500	25,300	19,600	93.0	82.0	2,352,900	1,607,200
CARLTON	3,000	1,500	700	300	75.0	94.0	52,500	28,200
CHISAGO	50,000	34,500	44,400	29,400	84.0	85.0	3,729,600	2,499,000
CROW WING	19,300	14,000	14,200	9,800	64.0	62.0	908,800	607,600
HENNEPIN	31,400	27,100	28,300	22,000	109.0	81.0	3,084,700	1,782,000
ISANTI	54,200	38,200	50,500	32,900	89.0	83.0	4,494,500	2,730,700
KANABEC	36,700	29,300	24,100	19,900	80.0	84.0	1,928,000	1,671,600
MILLE LACS	44,700	31,000	32,500	21,200	95.0	77.0	3,087,500	1,632,400
PINE	39,400	26,800	23,300	14,800	83.0	83.0	1,933,900	1,228,400
RAMSEY	1,000	600	900	500	88.0	97.0	79,200	48,500
WASHINGTON	48,200	34,300	45,400	30,700	84.0	88.0	3,813,600	2,701,600
EC DIST.	362,400	264,300	291,800	203,800	87.7	82.1	25,590,600	16,734,300
COTTONWOOD	156,000	114,900	148,500	101,400	126.0	81.0	18,711,000	8,213,400
JACKSON	187,800	132,700	181,500	124,600	130.0	88.0	23,595,000	10,964,800
LINCOLN	97,800	75,100	82,900	65,100	93.0	63.0	7,709,700	4,101,300
LYON	159,700	115,000	146,600	100,500	116.0	69.0	17,005,600	6,934,500
MURRAY	162,800	119,100	147,000	101,400	113.0	80.0	16,611,000	8,112,000
NOBLES	189,000	122,800	178,900	109,400	111.0	80.0	19,857,900	8,752,000
PIPESTONE	101,600	80,700	92,000	68,200	99.0	68.0	9,108,000	4,637,600
REDWOOD	201,800	146,800	192,800	136,300	124.0	82.0	23,907,200	11,176,600
ROCK	128,800	94,700	114,300	85,000	107.0	73.0	12,230,100	6,205,000
SW DIST.	1,385,300	1,001,800	1,284,500	891,900	115.8	77.5	148,735,500	69,097,200
BLUE EARTH	182,600	119,700	178,400	111,400	136.0	88.0	24,262,400	9,803,200
BROWN	133,700	95,600	127,400	84,500	123.0	85.0	15,670,200	7,182,500
FARIBAULT	175,700	124,200	172,400	116,300	137.0	88.0	23,618,800	10,234,400
FREEBORN	189,100	137,500	184,100	131,200	126.0	92.0	23,196,600	12,070,400
LESUEUR	82,400	57,800	76,300	49,500	113.0	91.0	8,621,900	4,504,500
MARTIN	188,600	136,700	183,100	130,300	133.0	89.0	24,352,300	11,596,700
NICOLLET	105,800	65,100	100,900	58,900	132.0	93.0	13,318,800	5,477,700
RICE	118,000	74,200	108,300	64,600	116.0	92.0	12,562,800	5,943,200
STEELE	117,500	86,200	111,500	79,000	116.0	89.0	12,934,000	7,031,000
WASECA	122,100	89,300	117,200	84,300	130.0	89.0	15,236,000	7,501,200
WATONWAN	107,500	81,600	105,500	77,600	138.0	91.0	14,559,000	7,061,600
SC DIST.	1,523,000	1,067,900	1,465,100	987,600	128.5	89.5	188,332,800	88,406,400
DAKOTA	105,200	71,400	94,900	63,700	106.0	96.0	10,059,400	6,115,200
DODGE	116,800	74,300	110,000	70,300	115.0	103.0	12,650,000	7,240,900
FILLMORE	200,600	130,500	187,100	116,400	107.0	103.0	20,019,700	11,987,200
GOODHUE	142,800	88,400	123,900	73,700	116.0	104.0	14,372,400	7,664,800
HOUSTON	73,300	44,700	60,900	35,300	118.0	117.0	7,186,200	4,130,100
MOWER	177,700	130,700	171,500	124,400	118.0	95.0	20,237,000	11,818,000
OLMSTED	150,800	97,200	130,100	87,300	120.0	93.0	15,612,000	8,118,900
WABASHA	80,400	53,700	67,100	44,100	114.0	103.0	7,649,400	4,542,300
WINONA	95,800	59,100	79,500	48,500	122.0	110.0	9,699,000	5,335,000
SE DIST.	1,143,400	750,000	1,025,000	653,700	114.6	100.9	117,485,100	66,952,400
***MINNESOTA	7,300,000	5,100,000	6,500,000	4,370,000	113.0	84.0	734,500,000	367,080,000



CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
BECKER	16,100	6,800	9.9	11.4	159,800	77,520
CLAY	5,300	4,500	9.5	10.6	50,300	47,700
CLEARWATER	5,900	3,600	8.9	8.5	52,700	30,600
KITTSON	300	1,200	8.7	11.7	2,600	14,040
MAHNOMEN	4,800	3,200	11.4	9.7	54,700	31,040
MARSHALL	6,000	3,000	8.5	8.3	51,000	24,900
NORMAN	7,000	6,900	11.9	10.4	83,200	71,760
PENNINGTON	1,900	700	10.4	9.1	19,800	6,370
POLK	8,600	7,000	10.4	9.2	89,600	64,400
RED LAKE	4,400	3,700	10.4	7.5	45,600	27,750
ROSEAU	7,900	2,100	8.8	10.5	69,600	22,050
NW DIST.	68,200	42,700	10.0	9.8	678,900	418,130
BELTRAMI	2,900	2,900	9.7	10.2	28,200	29,580
CASS	4,900	2,100	10.2	11.1	50,100	23,310
HUBBARD	1,600	2,800	10.0	8.0	16,000	22,400
ITASCA	1,200	400	9.3	8.0	11,200	3,200
KOOCHICHING	2,400	1,300	10.5	9.5	25.100	12,350
LAKE OF WOODS	1,400	300	10.0	9.0	14,000	2,700
NC DIST.	14,400	9,800	10.0	9.5	144,600	93,540
ST LOUIS	1,100	700	11.0	10.5	12,100	7,350
NE DIST.	1,100	700	11.0	10.5	12,100	7,350
BIG STONE	3,200	2,900	10.3	11.0	32,900	31,900
CHIPPEWA	3,500	4,200	16.0	8.9	56,100	37,380
DOUGLAS	14,600	14,000	13.4	11.5	195,900	161,000
GRANT	4,600	3,900	11.1	10.3	50,900	40,170
LAC QUI PARLE	8,900	6,000	12.1	9.8	107,700	58,800
OTTER TAIL	44,200	42,300	10.8	9.8	476,600	414,540
POPE	11,300	10,700	15.0	11.8	169,400	126,260
STEVENS	5,400	8,500	16.6	9.7	89,700	82,450
SWIFT	6,300	5,600	12.5	12.1	78,900	67,760
TRAVERSE	2,000	2,700	10.7	8.5	21,400	22,950
WILKIN	2,600	2,500	11.7	8.7	30,500	21,750
YELLOW MEDICINE	4,500	5,200	16.9	11.2	76,100	58,240
WC DIST.	111,100	108,500	12.5	10.4	1,386,100	1,123,200
BENTON	15,300	10,700	10.0	10.2	153,000	109,140
CARVER	14,100	13,100	14.8	13.3	208,400	174,230
KANDIYOHI	10,000	10,500	15.0	11.6	150,000	121,800
MCLEOD	10,600	8,500	16.7	14.5	176,800	123,250
MEEKER	7,400	6,400	14.4	12.2	106,400	78,080
MORRISON	28,700	24,800	11.1	11.2	318,800	277,760
RENVILLE	2,500	5,200	17.8	14.8	44,500	76,960
SCOTT	10,000	7,100	15.2	12.1	151,500	85,910
SHERBURNE	5,500	5,300	9.9	12.0	54,500	63,600
SIBLEY	7,400	7,300	16.6	11.7	123,000	85,410
STEARNS	54,600	49,400	13.6	9.8	740,700	484,120
TODD	27,800	26,700	11.7	10.3	326,600	275,010
WADENA	11,000	9,300	11.6	8.9	127,200	82,770
WRIGHT	13,900	11,000	12.6	12.4	175,300	136,400
CENT. DIST.	218,800	195,300	13.1	11.1	2,856,700	2,174,440

CORN FOR SILAGE

CORN FOR SILAGE: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
AITKIN	1,600	1,700	9.1	9.5	14,500	16,150
ANOKA	3,100	2,800	11.6	7.5	36,000	21,000
CARLTON	2,000	900	9.5	11.6	19,000	10,440
CHISAGO	5,300	4,800	12.5	11.5	66,200	55,200
CROW WING	4,800	4,100	9.0	9.7	43,200	39,770
HENNEPIN	3,100	4,800	15.7	11.6	48,600	55,680
ISANTI	3,400	4,700	12.4	10.3	42,200	48,410
KANABEC	12,400	7,600	11.3	12.4	140,200	94,240
MILLE LACS	10,900	7,600	13.5	11.0	147,100	83,600
PINE	14,600	9,500	12.3	11.3	179,700	107,350
RAMSEY	100	100	12.0	10.0	1,200	1,000
WASHINGTON	2,600	3,500	10.3	11.5	26,900	40,260
EC DIST.	63,900	52,100	12.0	11.0	764,800	573,100
COTTONWOOD	6,800	11,700	15.7	12.8	106,900	149,760
JACKSON	5,400	7,000	15.0	12.0	80,900	84,000
LINCOLN	14,300	9,100	13.2	10.4	188,700	94,640
LYON	10,300	14,100	14.3	11.4	147,000	160,740
MURRAY	15,200	16,200	13.2	11.6	201,300	187,920
NOBLES	9,600	12,500	16.2	11.8	155,500	147,500
PIPESTONE	8,400	12,500	14.6	11.1	122,500	138,750
REDWOOD	7,300	9,800	17.0	13.2	124,100	129,360
ROCK	13,100	8,900	16.4	11.2	214,900	99,680
SW DIST.	90,400	101,800	14.8	11.7	1,341,800	1,192,350
BLUE EARTH	3,800	7,100	17.0	11.6	64,600	82,360
BROWN	6,100	10,100	19.6	12.1	119,800	122,210
FARIBAULT	2,500	3,800	19.0	15.1	47,500	57,380
FREEBORN	3,800	5,400	15.4	13.4	58,500	72,360
LESUEUR	5,400	6,400	16.6	12.5	89,900	80,000
MARTIN	4,700	6,000	18.1	12.5	85,100	75,000
NICOLLET	4,700	4,200	17.3	12.7	81,400	53,340
RICE	9,400	8,000	14.9	12.2	140,100	97,600
STEELE	5,600	6,700	15.0	12.7	83,900	85,090
WASECA	4,500	4,100	18.9	11.8	85,000	48,380
WATONWAN	1,400	3,800	20.9	11.9	29,200	45,220
SC DIST.	51,900	65,600	17.1	12.5	885,000	818,940
DAKOTA	9,800	5,700	15.1	14.8	147,500	84,360
DODGE	6,000	3,200	14.6	12.0	87,800	38,400
FILLMORE	10,600	10,600	16.2	14.6	172,100	154,760
GOODHUE	18,200	12,600	15.6	15.3	284,100	192,780
HOUSTON	12,200	8,700	14.5	16.1	176,600	140,070
MOWER	5,500	5,000	13.6	14.3	74,800	71,500
OLMSTED	19,900	8,800	18.2	11.6	361,500	102,080
WABASHA	12,000	8,600	16.7	13.6	200,500	116,960
WINONA	16,000	10,300	17.5	16.8	280,100	173,040
SE DIST.	110,200	73,500	16.2	14.6	1,785,000	1,073,950
***MINNESOTA	730,000	650,000	13.5	11.5	9,855,000	7,475,000

SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA

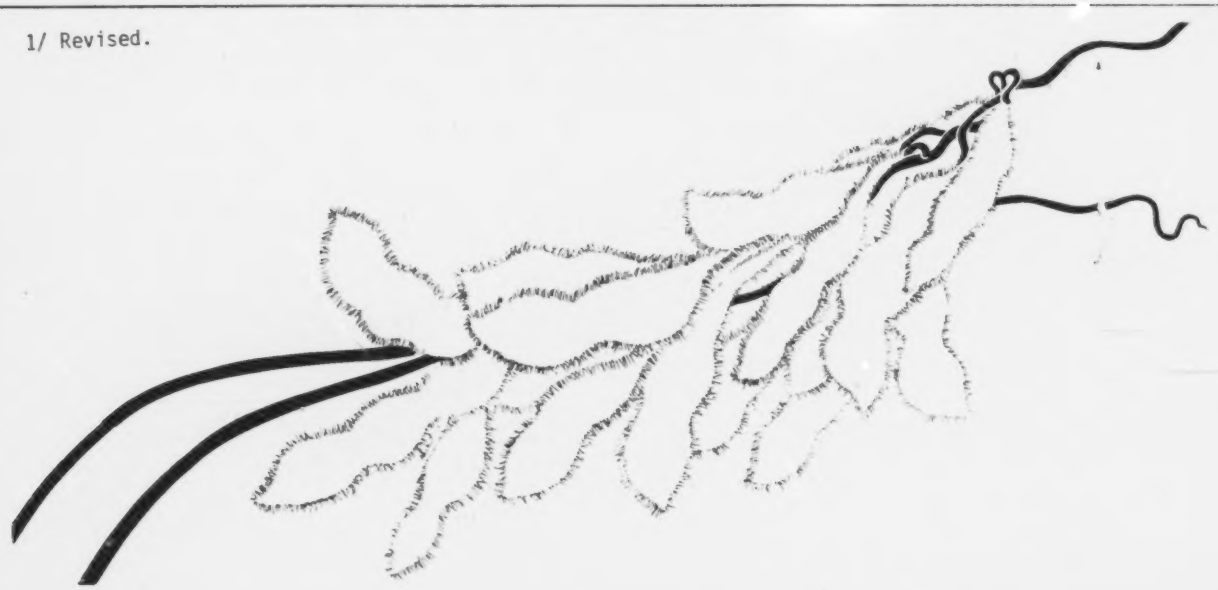
DISTRICT AND COUNTY	ACREAGE PLANTED 1982 1/	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982 1/	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982 1/	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982 1/	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	13,900	21,500	13,300	21,000	25.0	34.0	332,500	714,000
CLAY	63,700	74,500	60,800	73,700	27.0	33.0	1,641,600	2,432,100
CLEARWATER	400	500	300	400	14.0	25.0	4,200	10,000
KITTSON	3,100	6,000	2,600	5,800	20.0	18.0	52,000	104,400
MAHNOMEN	2,000	4,000	2,000	3,900	20.0	24.0	40,000	93,600
MARSHALL	29,800	36,800	24,500	36,600	16.0	25.0	392,000	915,000
NORMAN	18,800	26,200	18,200	26,100	25.0	30.0	455,000	783,000
PENNINGTON	400	2,300	400	2,200	14.0	14.0	5,600	30,800
POLK	14,400	30,000	13,800	29,800	18.0	26.0	248,400	774,800
RED LAKE	1,100	3,900	1,000	3,700	16.0	22.0	16,000	81,400
ROSEAU	300	600	300	600	24.0	28.0	7,200	16,800
NW DIST.	147,900	206,300	137,200	203,800	23.3	29.2	3,194,500	5,955,900
NC DIST.	1,400	900	1,200	700	25.3	21.3	30,400	14,900
BIG STONE	54,000	52,000	53,200	51,800	27.0	31.0	1,436,400	1,605,800
CHIPPEWA	103,800	88,000	102,100	86,500	35.0	29.5	3,573,500	2,555,800
DOUGLAS	27,800	26,800	27,400	26,700	31.0	31.0	849,400	827,700
GRANT	71,500	71,200	70,200	71,000	33.0	32.0	2,316,600	2,272,000
LAC QUI PARLE	138,700	113,200	136,800	111,700	28.0	28.0	3,830,400	3,127,600
OTTER TAIL	56,100	54,800	55,000	53,700	35.0	29.0	1,925,000	1,557,300
POPE	37,500	37,800	36,400	37,700	31.0	33.0	1,128,400	1,244,100
STEVENS	66,800	68,800	65,900	68,300	33.0	32.0	2,174,700	2,185,600
SWIFT	106,000	98,000	104,300	97,800	35.0	33.0	3,650,500	3,227,400
TRAVERSE	78,200	73,600	76,800	73,100	25.0	29.0	1,920,000	2,119,900
WILKIN	45,500	61,500	44,700	60,900	29.0	29.0	1,296,300	1,766,100
YELLOW MEDICINE	155,600	145,200	153,300	144,900	38.0	31.0	5,825,400	4,491,900
WC DIST.	941,500	890,900	926,100	884,100	32.3	30.5	29,926,600	26,981,200
BENTON	5,000	5,100	4,900	5,000	28.0	25.0	137,200	125,000
CARVER	25,600	21,100	25,100	20,500	35.0	37.0	878,500	758,500
KANDIYOHI	99,100	100,000	97,200	98,700	39.0	33.0	3,790,800	3,257,600
MCLEOD	80,300	76,900	78,400	76,500	37.0	36.0	2,900,800	2,754,000
MEEKER	76,300	68,900	74,700	67,800	35.0	30.0	2,614,500	2,034,000
MORRISON	4,600	5,000	4,500	4,900	20.0	28.0	90,000	137,200
RENVILLE	238,300	210,000	234,400	209,200	40.0	37.0	9,376,000	7,740,900
SCOTT	34,400	29,000	33,500	28,700	34.0	31.0	1,139,000	889,700
SHERBURNE	14,700	11,800	14,400	11,600	32.0	22.0	460,800	255,200
SIBLEY	121,900	112,200	119,700	107,400	38.0	31.0	4,548,600	3,329,400
STEARNS	40,500	34,600	39,900	32,300	31.0	32.0	1,236,900	1,033,600
TODD	11,000	8,700	10,800	8,100	31.0	24.0	334,800	194,400
WADENA	2,200	2,000	2,200	2,000	30.0	15.0	66,000	30,000
WRIGHT	44,700	41,100	44,000	40,600	33.0	28.0	1,452,000	1,136,800
CENT. DIST.	798,600	726,400	783,700	713,300	37.0	33.2	29,025,900	23,676,300
ANOKA	6,800	4,900	6,600	4,300	28.0	25.0	184,800	107,500
CHISAGO	18,000	16,100	17,400	15,800	22.0	25.0	382,800	395,000
CROW WING	2,800	2,600	2,600	2,500	18.0	19.0	46,800	47,500
HENNEPIN	18,300	17,600	18,000	17,300	36.0	31.0	648,000	536,300
ISANTI	14,400	12,400	14,000	12,200	22.0	28.0	308,000	341,600
KANABEC	1,100	900	1,100	700	24.0	24.0	26,400	16,800
MILLE LACS	4,100	3,400	3,600	3,000	27.0	29.0	97,200	87,000
PINE	3,300	2,500	3,200	2,300	22.0	24.0	70,400	55,200
WASHINGTON	22,600	18,800	22,200	18,600	23.0	32.0	510,600	595,200
OTHER COUNTIES	1,200	800	1,100	700	26.3	26.3	28,900	18,400
EC DIST.	92,600	80,000	89,800	77,400	25.7	28.4	2,303,900	2,200,500

1/ Revised.

SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE PLANTED 1982 1/	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982 1/	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982 1/	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982 1/	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
COTTONWOOD	164,600	149,200	161,200	147,900	39.3	31.0	6,329,500	4,584,900
JACKSON	191,800	174,300	187,100	173,800	40.3	32.0	7,543,700	5,561,600
LINCOLN	59,500	59,100	58,400	58,500	31.2	29.0	1,823,100	1,696,500
LYON	150,200	126,100	146,500	125,300	38.3	31.0	5,612,000	3,884,300
MURRAY	142,300	139,900	139,200	135,400	37.3	30.0	5,197,400	4,062,000
NOBLES	167,900	156,900	164,400	156,000	35.3	30.0	5,808,900	4,680,000
PIPESTONE	62,100	66,200	61,100	66,000	35.1	29.0	2,145,900	1,914,000
REDWOOD	217,200	199,600	211,000	199,400	38.3	34.0	8,085,000	6,779,600
ROCK	82,400	78,700	79,100	78,600	35.1	34.0	2,778,100	2,672,400
SW DIST.	1,238,000	1,150,000	1,208,000	1,140,900	37.5	31.4	45,323,600	35,835,300
BLUE EARTH	175,300	167,000	170,700	165,800	38.8	35.0	6,626,100	5,803,000
BROWN	126,100	119,500	123,300	118,300	38.7	35.0	4,769,100	4,140,500
FARIBAULT	176,100	160,000	171,100	159,300	36.9	33.0	6,309,400	5,256,900
FREEBORN	145,300	138,300	141,700	133,900	36.7	33.0	5,201,300	4,418,700
LESUEUR	68,600	63,300	67,500	62,200	34.5	30.0	2,330,800	1,866,000
MARTIN	190,400	178,000	185,300	176,800	39.8	34.0	7,365,900	6,011,200
NICOLLET	89,500	85,700	87,100	84,600	38.8	31.0	3,380,200	2,622,600
RICE	46,600	40,700	45,700	40,200	34.5	33.0	1,578,100	1,326,600
STEELE	79,200	78,000	75,800	77,300	33.0	33.0	2,504,600	2,550,900
WASECA	79,400	71,800	77,000	71,100	36.9	35.0	2,843,000	2,488,500
WATONWAN	103,400	100,100	99,800	99,400	41.1	35.0	4,101,200	3,479,000
SC DIST.	1,279,900	1,202,400	1,245,000	1,188,900	37.8	33.6	47,009,700	39,963,900
DAKOTA	62,200	50,000	60,900	49,800	31.0	32.0	1,887,900	1,593,600
DODGE	72,000	63,800	68,700	63,500	32.0	34.0	2,198,400	2,159,000
FILLMORE	41,500	37,200	40,700	37,100	31.0	31.0	1,261,700	1,150,100
GOODHUE	54,900	47,000	53,400	46,700	34.0	33.0	1,815,600	1,541,100
HOUSTON	3,500	3,100	3,400	3,000	35.0	37.0	119,000	111,000
MOWER	152,500	133,800	149,800	133,000	35.0	31.0	5,243,000	4,123,000
OLMSTED	39,400	35,700	38,700	35,500	34.0	32.0	1,315,800	1,136,000
WABASHA	15,400	14,100	14,800	14,000	32.0	34.0	473,600	476,000
WINONA	8,700	8,400	8,600	8,300	39.0	34.0	335,400	282,200
SE DIST.	450,100	393,100	439,000	390,900	33.4	32.2	14,650,400	12,572,000
***MINNESOTA	4,950,000	4,650,000	4,830,000	4,600,000	35.5	32.0	171,465,000	147,200,000

1/ Revised.



ALL WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA

ALL WHEAT

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	70,100	46,800	69,300	43,700	37.6	39.4	2,605,000	1,720,100
CLAY	185,200	138,200	183,000	122,200	43.3	39.4	7,925,200	4,819,200
CLEARWATER	12,000	13,200	11,900	11,500	28.5	28.8	339,100	331,700
KITTSON	268,900	189,400	266,000	180,600	41.6	36.0	11,062,600	6,497,600
MAHNOMEN	34,100	29,800	33,900	27,700	41.7	41.1	1,413,300	1,137,500
MARSHALL	353,500	249,300	341,900	234,500	36.9	36.9	12,608,100	8,651,700
NORMAN	198,600	144,500	196,700	136,400	45.8	40.9	9,018,600	5,585,100
PENNINGTON	103,800	68,900	101,400	56,800	32.0	26.2	3,247,200	1,489,300
POLK	420,100	290,700	411,200	271,600	43.8	41.9	17,991,800	11,368,700
RED LAKE	55,400	44,600	54,300	39,600	30.9	27.1	1,677,900	1,074,800
ROSEAU	186,200	147,200	181,400	131,700	39.1	34.4	7,090,900	4,532,500
NW DIST.	1,887,900	1,362,600	1,851,000	1,256,300	40.5	37.6	74,979,700	47,208,200
BELTRAMI	8,000	8,100	7,500	5,100	26.6	23.1	199,300	117,600
HUBBARD	1,100	700	1,000	600	31.2	29.2	31,200	17,500
KOOCHICHING	1,700	2,900	1,700	2,600	38.0	28.5	64,600	74,200
LAKE OF WOODS	16,800	12,500	15,700	10,100	34.9	38.8	547,500	392,300
OTHER COUNTIES	2,700	700	1,500	600	33.7	26.2	50,600	15,700
NC DIST.	30,300	24,900	27,400	19,000	32.6	32.5	893,200	617,300
ST LOUIS	1,400	700	1,300	600	35.0	29.0	45,500	17,400
NE DIST.	1,400	700	1,300	600	35.0	29.0	45,500	17,400
BIG STONE	85,300	52,200	84,700	49,300	31.0	33.1	2,624,500	1,629,900
CHIPPEWA	74,600	54,600	74,000	50,300	38.9	40.0	2,878,800	2,011,000
DOUGLAS	24,400	15,000	24,200	14,400	37.9	35.1	916,000	506,000
GRANT	84,700	71,400	84,200	65,600	40.9	37.1	3,447,200	2,430,800
LAC QUI PARLE	101,500	72,700	100,900	67,900	37.0	36.0	3,730,900	2,445,200
OTTER TAIL	75,600	58,900	75,000	58,000	37.9	36.9	2,845,700	2,137,300
POPE	39,900	23,700	38,800	21,400	41.0	37.0	1,590,300	791,500
STEVENS	78,700	51,500	78,300	46,900	40.0	38.0	3,130,000	1,780,600
SWIFT	74,100	50,100	73,600	49,400	39.0	37.9	2,867,700	1,871,600
TRAVERSE	110,900	85,300	109,600	83,200	36.9	33.0	4,049,600	2,749,300
WILKIN	139,000	108,700	138,100	103,700	41.9	37.0	5,786,900	3,838,900
YELLOW MEDICINE	57,800	35,900	57,200	31,100	39.0	35.1	2,229,600	1,090,100
WC DIST.	946,500	680,000	938,600	641,200	38.5	36.3	36,097,200	23,282,200
BENTON	400	800	400	600	30.5	32.2	12,200	19,300
CARVER	4,000	3,300	4,000	3,100	45.5	34.9	182,000	108,300
KANDIYOHI	38,200	19,200	37,700	17,900	42.9	36.0	1,616,900	643,800
MCLEOD	20,700	13,300	19,700	11,500	41.0	35.2	807,700	405,100
MEEKER	15,300	7,000	15,200	5,900	42.6	38.5	647,200	226,900
MORRISON	1,000	1,500	1,000	1,100	30.6	33.3	30,600	36,600
RENVILLE	75,700	42,300	73,400	39,100	46.0	39.0	3,373,200	1,526,400
SCOTT	4,800	4,100	4,800	2,300	38.9	33.7	186,500	77,500
SHERBURNE	2,000	2,900	2,000	2,000	30.4	30.0	60,800	60,000
SIBLEY	14,500	11,500	14,300	10,100	44.8	36.9	640,900	372,800
STEARNS	7,900	6,000	7,900	4,500	33.2	34.5	262,600	155,400
TODD	5,100	2,200	5,100	1,600	38.1	33.5	194,300	53,600
WADENA	600	1,100	600	700	33.7	32.0	20,200	22,400
WRIGHT	4,000	4,100	3,900	2,900	40.0	34.1	155,900	98,800
CENT. DIST.	194,200	119,300	190,000	103,300	43.1	36.9	8,191,000	3,806,900
AITKIN	600	1,600	600	1,600	34.3	38.5	20,600	61,600
CROW WING	200	500	200	500	30.0	33.0	6,000	16,500
HENNEPIN	1,900	2,600	1,800	2,300	38.7	35.4	69,700	81,400
ISANTI	700	600	700	500	30.1	32.4	21,100	16,200
MILLE LACS	500	600	500	400	34.0	31.5	17,000	12,600
WASHINGTON	2,400	2,600	2,300	1,900	36.2	33.0	83,300	62,700
OTHER COUNTIES	1,500	1,100	1,500	1,100	33.7	30.6	50,600	33,700
EC DIST.	7,800	9,600	7,600	8,300	35.3	34.3	268,300	284,700

ALL WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
COTTONWOOD	10,500	1,700	10,400	1,300	39.0	33.4	405,800	43,400
LINCOLN	25,000	20,900	24,900	18,400	34.0	32.0	847,100	588,400
LYON	17,000	33,800	16,800	29,400	39.0	33.0	655,200	970,500
MURRAY	11,200	9,900	11,100	9,100	37.0	33.1	410,900	300,800
NOBLES	2,200	3,200	1,900	2,500	38.3	33.2	72,800	83,000
PIPESTONE	4,200	3,200	3,900	3,200	36.0	31.0	140,400	99,200
REDWOOD	20,600	13,200	20,400	10,800	39.9	36.0	814,800	389,000
OTHER COUNTIES	3,200	900	3,200	700	38.4	33.9	122,800	23,700
SW DIST.	93,900	86,800	92,600	75,400	37.5	33.1	3,469,800	2,498,000
BLUE EARTH	9,600	4,900	9,000	2,800	39.4	35.9	354,500	100,400
BROWN	9,000	4,600	8,600	2,600	38.7	35.1	333,000	91,300
FARIBAULT	4,300	2,000	4,100	1,400	32.8	33.4	134,400	46,800
FREEBORN	3,400	3,100	3,200	1,500	39.2	33.6	125,300	50,400
LESUEUR	11,400	9,000	11,100	5,700	38.0	33.2	421,800	189,100
MARTIN	700	900	700	700	39.7	36.1	27,800	25,300
NICOLLET	7,400	5,600	7,200	3,300	42.9	35.1	308,800	115,900
RICE	4,900	1,700	4,900	1,000	35.7	33.6	174,900	33,600
STEELE	4,700	3,800	4,700	2,700	36.8	35.0	172,900	94,600
WASECA	4,100	2,200	4,100	1,300	36.8	33.9	150,700	44,100
WATONWAN	2,200	1,900	2,200	1,200	38.3	36.7	84,200	44,000
SC DIST.	61,700	39,700	59,800	24,200	38.3	34.5	2,288,300	835,500
DAKOTA	6,300	7,600	6,000	5,300	35.5	36.0	212,700	191,000
DODGE	1,500	1,400	1,400	1,000	36.9	33.2	51,700	33,200
FILLMORE	1,000	900	1,000	500	36.8	34.6	36,800	17,300
GOODHUE	2,100	2,600	2,100	1,800	37.2	34.2	78,100	61,500
MOWER	2,400	1,400	2,300	1,000	38.9	36.0	89,500	36,000
OLMSTED	900	900	900	800	38.9	34.3	35,000	27,400
OTHER COUNTIES	2,100	1,600	2,000	1,300	36.1	33.4	72,200	43,400
SE DIST.	16,300	16,400	15,700	11,700	36.7	35.0	576,000	409,800
***MINNESOTA	3,240,000	2,340,000	3,184,000	2,140,000	39.8	36.9	126,809,000	78,960,000

SPRING WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	62,300	39,900	61,600	37,800	38.0	39.0	2,340,800	1,474,200
CLAY	155,400	122,800	153,600	109,600	44.0	40.0	6,758,400	4,384,000
CLEARWATER	8,300	9,800	8,200	9,300	28.0	29.0	229,600	269,700
KITTSON	265,800	187,700	263,000	179,200	41.6	36.0	10,951,200	6,451,200
MAHNOMEN	31,800	27,800	31,600	26,100	42.0	41.0	1,327,200	1,070,100
MARSHALL	341,700	241,700	330,600	227,900	37.0	37.0	12,232,200	8,432,300
NORMAN	192,100	139,400	190,300	132,100	46.0	41.0	8,753,800	5,416,100
PENNINGTON	100,600	66,200	98,200	54,500	32.0	26.0	3,142,400	1,417,000
POLK	390,100	275,400	381,900	258,900	44.0	42.0	16,803,600	10,873,800
RED LAKE	53,500	42,900	52,700	38,200	31.0	27.0	1,633,700	1,031,400
ROSEAU	166,000	128,000	162,300	116,300	40.0	35.0	6,492,000	4,070,500
NW DIST.	1,767,600	1,281,600	1,734,000	1,189,900	40.8	37.7	70,664,900	44,890,300
BELTRAMI	7,400	7,900	7,000	5,000	26.0	23.0	182,000	115,000
HUBBARD	600	500	600	500	32.0	30.0	19,200	15,000
KOOCHICHING	1,700	2,500	1,700	2,400	38.0	29.0	64,600	69,600
LAKE OF WOODS	16,200	12,200	15,200	9,900	35.0	39.0	532,000	386,100
OTHER COUNTIES	1,800	400	800	400	35.0	25.8	28,000	10,300
NC DIST.	27,700	23,500	25,300	18,200	32.6	32.7	825,800	596,000
ST LOUIS	1,400	500	1,300	500	35.0	30.0	45,500	15,000
NE DIST.	1,400	500	1,300	500	35.0	30.0	45,500	15,000
BIG STONE	83,700	50,800	83,100	47,900	31.0	33.0	2,576,100	1,580,700
CHIPPEWA	74,200	54,100	73,600	49,800	39.0	40.0	2,870,400	1,992,000
DOUGLAS	22,800	13,700	22,600	13,100	38.0	35.0	858,800	458,500
GRANT	83,900	70,000	83,400	64,400	41.0	37.0	3,419,400	2,382,800
LAC QUI PARLE	100,700	71,900	100,100	67,100	37.0	36.0	3,703,700	2,415,600
OTTER TAIL	73,100	56,200	72,500	55,500	38.0	37.0	2,755,000	2,053,500
POPE	39,700	23,500	38,700	21,200	41.0	37.0	1,586,700	784,400
STEVENS	78,100	51,100	77,700	46,500	40.0	38.0	3,108,000	1,767,000
SWIFT	72,600	49,200	72,100	48,600	39.0	38.0	2,811,900	1,846,800
TRAVERSE	108,900	83,200	107,800	81,300	37.0	33.0	3,988,600	2,682,900
WILKIN	137,100	107,100	136,200	102,400	42.0	37.0	5,720,400	3,788,800
YELLOW MEDICINE	56,900	35,200	56,300	30,500	39.0	35.0	2,195,700	1,067,500
WC DIST.	931,700	666,000	924,100	628,300	38.5	36.3	35,594,700	22,820,500
CARVER	3,500	2,300	3,500	2,300	46.0	35.0	161,000	80,500
KANDIYOHI	37,000	17,100	36,500	16,500	43.0	36.0	1,569,500	594,000
MCLEOD	20,000	11,600	19,000	10,200	41.0	35.0	779,000	357,000
MEEKER	14,500	5,500	14,400	5,100	43.0	39.0	619,200	198,900
MORRISON	600	700	600	600	31.0	36.0	18,600	21,600
RENVILLE	74,900	40,800	72,600	38,600	46.0	39.0	3,339,600	1,505,400
SCOTT	4,100	2,800	4,100	1,600	39.0	34.0	159,900	54,400
SHERBURNE	1,200	1,100	1,200	900	30.0	30.0	36,000	27,000
SIBLEY	13,100	8,700	12,900	7,800	45.0	36.0	580,700	280,800
STEARNS	7,000	4,500	7,000	3,200	33.0	36.0	231,000	115,200
TODD	4,600	1,300	4,600	800	38.0	36.0	174,800	28,800
WRIGHT	3,000	2,100	2,900	1,500	41.0	36.0	118,900	54,000
OTHER COUNTIES	400	500	400	300	32.5	35.7	13,000	10,700
CENT. DIST.	183,900	99,000	179,700	89,400	43.4	37.2	7,801,200	3,328,300
AITKIN	400	1,500	400	1,500	36.0	39.0	14,400	58,500
CROW WING	200	500	200	500	30.0	33.0	6,000	16,500
HENNEPIN	1,000	1,500	1,000	1,300	41.0	37.0	41,000	48,100
WASHINGTON	1,500	1,600	1,400	1,400	37.0	33.0	51,800	46,200
OTHER COUNTIES	1,900	1,300	1,900	1,300	32.8	31.7	62,300	41,200
EC DIST.	5,000	6,400	4,900	6,000	35.8	35.1	175,500	210,500

SPRING WHEAT

SPRING WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS & COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
COTTONWOOD	10,400	1,400	10,300	1,000	39.0	32.0	401,700	32,000
LINCOLN	24,500	20,100	24,400	17,800	34.0	32.0	829,600	569,600
LYON	16,800	33,500	16,600	29,100	39.0	33.0	647,400	960,300
MURRAY	11,000	9,700	10,900	9,000	37.0	33.0	403,300	297,000
NOBLES	1,900	2,600	1,700	2,000	38.0	32.0	64,600	64,000
PIPESTONE	4,000	3,200	3,900	3,200	36.0	31.0	140,400	99,200
REDWOOD	20,200	12,200	20,000	10,700	40.0	36.0	800,000	385,200
OTHER COUNTIES	2,900	700	2,900	600	38.4	33.0	111,500	19,800
SW DIST.	91,700	83,400	90,700	73,400	37.5	33.1	3,398,500	2,427,100
BLUE EARTH	7,500	3,200	7,100	1,500	40.0	35.0	284,000	52,500
BROWN	7,600	3,500	7,400	2,100	39.0	33.0	288,600	69,300
FARIBAULT	3,400	1,400	3,400	1,000	33.0	32.0	112,200	32,000
FREEBORN	2,800	2,600	2,700	1,100	39.0	32.0	105,300	35,200
LESUEUR	8,200	6,400	8,100	4,400	38.0	33.0	307,800	145,200
NICOLLET	6,500	4,900	6,400	3,000	43.0	35.0	275,200	105,000
STEELE	4,500	3,700	4,500	2,600	37.0	35.0	166,500	91,000
WASECA	3,600	1,700	3,600	900	37.0	32.0	133,200	28,800
WATONWAN	1,900	1,700	1,900	1,000	38.0	36.0	72,200	36,000
OTHER COUNTIES	4,900	1,700	4,900	1,000	36.4	33.9	178,400	33,900
SC DIST.	50,900	30,800	50,000	18,600	38.5	33.8	1,923,400	628,900
DAKOTA	2,800	3,200	2,900	2,100	35.0	33.0	98,000	69,300
DODGE	1,000	800	1,000	400	37.0	33.0	37,000	13,200
FILLMORE	800	600	800	300	37.0	35.0	29,600	10,500
GOODHUE	1,300	1,600	1,300	1,000	38.0	35.0	49,400	35,000
MOWER	2,100	1,200	2,000	800	39.0	36.0	78,000	28,800
OLMSTED	700	500	700	400	40.0	34.0	28,000	13,600
OTHER COUNTIES	1,400	900	1,400	700	36.1	32.9	50,500	23,000
SE DIST.	10,100	8,800	10,000	5,700	37.1	33.9	370,500	193,400
***MINNESOTA	3,070,000	2,200,000	3,020,000	2,030,000	40.0	37.0	120,800,000	75,110,000

OATS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED		ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983	1982	1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	33,300	33,900	29,600	29,300	50.0	56.0	1,480,000	1,639,300
CLAY	25,400	20,100	24,900	17,600	68.0	61.0	1,693,200	1,072,600
CLEARWATER	23,800	18,500	22,400	17,700	53.0	55.0	1,187,200	972,700
KITTSON	20,900	21,500	20,400	7,700	61.0	54.0	1,244,400	415,500
MAHNOMEN	11,700	8,600	11,200	7,200	63.0	69.0	705,600	496,400
MARSHALL	37,800	33,900	35,700	22,200	66.0	50.0	2,356,200	1,109,000
NORMAN	23,100	12,900	20,400	9,600	65.0	65.0	1,326,000	623,500
PENNINGTON	17,500	18,600	16,900	15,500	60.0	46.0	1,014,000	712,400
POLK	17,600	14,900	15,900	10,600	64.0	58.0	1,017,600	614,300
RED LAKE	9,700	32,400	9,200	25,300	56.0	42.0	515,200	1,061,700
ROSEAU	55,300	52,100	53,000	44,400	65.0	56.0	3,444,900	2,484,300
NW DIST.	276,100	267,400	259,600	207,100	61.6	54.1	15,984,300	11,201,700
BELTRAMI	18,400	16,000	17,100	12,600	47.0	49.0	803,700	616,800
CASS	8,900	4,100	6,000	2,200	38.0	47.0	228,000	103,300
HUBBARD	12,900	11,900	10,600	10,400	36.0	44.0	381,600	457,200
ITASCA	5,400	7,700	4,100	5,600	37.0	51.0	151,700	285,400
KOOCHICHING	8,600	9,300	7,900	8,700	53.0	45.0	418,700	391,200
LAKE OF WOODS	11,200	10,600	10,700	9,800	60.0	52.0	642,000	509,200
NC DIST.	65,400	59,600	56,400	49,300	46.6	47.9	2,625,700	2,363,100
ST LOUIS	8,600	8,000	5,300	6,100	37.0	40.0	196,100	243,800
OTHER COUNTIES	200	200	0	0	0	0	0	0
NE DIST.	8,800	8,200	5,300	6,100	37.0	40.0	196,100	243,800
BIG STONE	14,500	24,500	14,200	12,400	70.0	65.0	994,000	805,300
CHIPPEWA	16,600	23,100	15,400	8,800	81.0	67.0	1,247,400	589,100
DOUGLAS	59,700	60,100	58,400	55,800	69.0	59.0	4,029,500	3,289,400
GRANT	10,100	9,900	9,500	6,400	72.0	65.0	684,000	415,700
LAC QUI PARLE	27,600	64,800	24,400	14,900	72.0	61.0	1,756,800	908,100
OTTER TAIL	127,400	137,800	123,300	113,200	58.0	57.0	7,151,300	6,446,900
POPE	52,600	57,400	51,800	40,100	71.0	64.0	3,677,800	2,564,200
STEVENS	22,900	20,000	21,000	14,600	79.0	71.0	1,659,000	1,035,600
SWIFT	26,400	52,700	25,000	17,600	71.0	62.0	1,775,000	1,090,200
TRAVERSE	15,500	23,900	14,800	8,800	64.0	55.0	947,200	483,600
WILKIN	11,200	16,500	10,700	7,000	69.0	60.0	738,300	419,700
YELLOW MEDICINE	18,200	46,800	16,000	12,400	79.0	48.0	1,264,000	594,700
WC DIST.	402,700	537,500	384,500	312,000	67.4	59.8	25,924,300	18,642,500
BENTON	17,600	15,700	16,500	11,700	58.0	55.0	957,000	643,000
CARVER	15,900	22,400	14,300	13,200	80.0	67.0	1,144,000	883,700
KANDIYOHI	36,600	58,700	35,200	33,300	77.0	65.0	2,710,400	2,162,600
MCLEOD	18,800	29,300	17,700	14,800	75.0	66.0	1,327,500	976,000
MEEKER	20,900	45,800	18,000	19,700	73.0	66.0	1,314,000	1,299,000
MORRISON	37,400	32,900	34,400	28,700	56.0	59.0	1,926,400	1,691,800
RENVILLE	18,000	53,000	16,400	13,100	87.0	68.0	1,426,800	890,100
SCOTT	10,700	21,200	8,800	10,000	74.0	56.0	651,200	559,500
SHERBURNE	6,600	6,700	5,500	5,100	52.0	45.0	286,000	229,300
SIBLEY	15,300	23,700	13,900	9,000	82.0	61.0	1,139,800	548,500
STEARNS	102,100	103,500	92,600	86,200	67.0	61.0	6,204,100	5,253,600
TODD	61,900	59,700	59,600	53,900	58.0	59.0	3,456,800	3,177,300
WADENA	15,500	17,700	12,600	14,400	50.0	50.0	630,000	719,400
WRIGHT	32,800	40,600	31,200	28,000	70.0	58.0	2,184,000	1,622,600
CENT. DIST.	410,100	530,900	376,700	341,100	67.3	60.6	25,358,000	20,656,400

OATS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA (CONT'D)

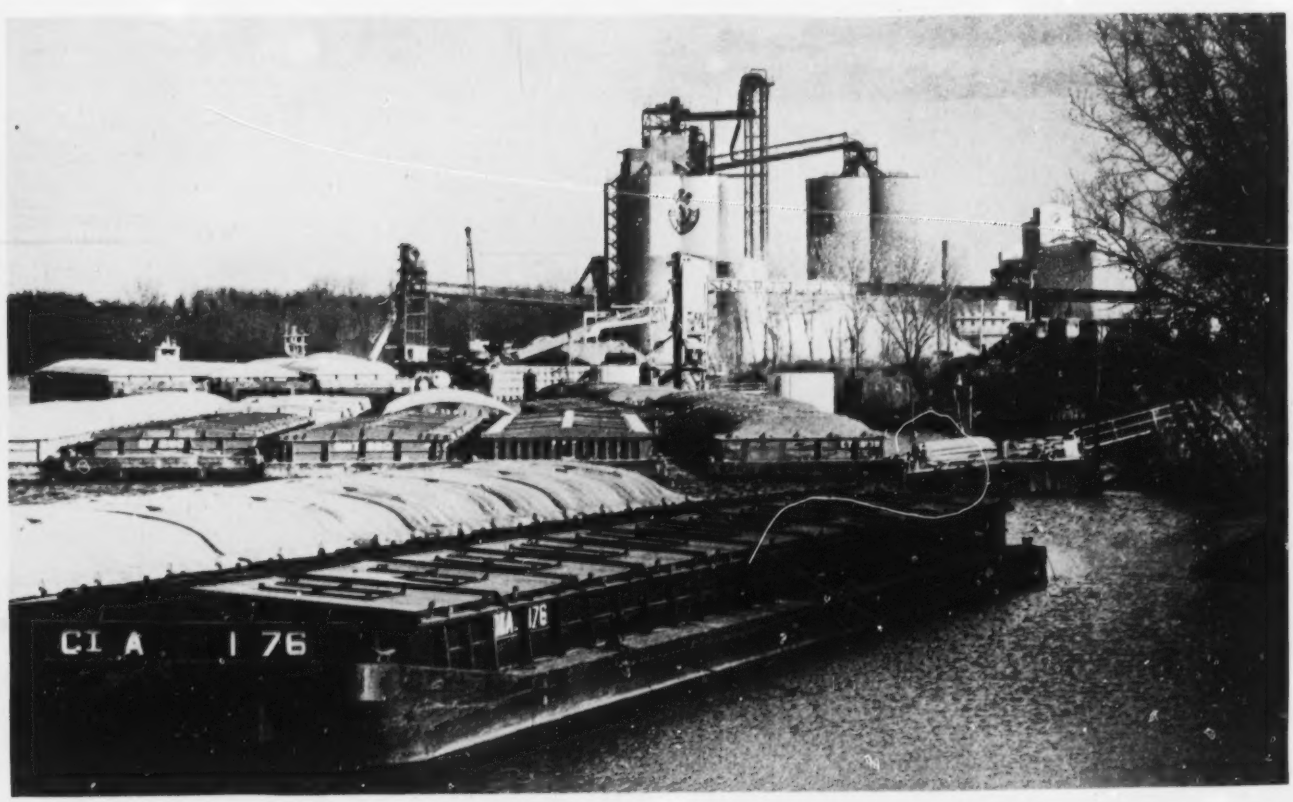
DISTRICT AND COUNTY	ACREAGE PLANTED		ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983	1982	1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
AITKIN	4,300	6,900	3,300	6,300	44.0	50.0	145,200	314,700
CARLTON	8,500	8,900	5,600	6,600	45.0	52.0	252,000	342,900
CHISAGO	8,200	6,200	7,400	5,000	55.0	53.0	407,000	264,800
CROW WING	9,600	9,900	8,800	8,500	49.0	49.0	431,200	416,200
HENNEPIN	6,900	6,600	5,500	5,400	68.0	59.0	374,000	318,300
ISANTI	8,200	6,400	7,300	5,500	56.0	54.0	408,800	296,800
KANABEC	11,100	9,400	9,400	6,700	59.0	54.0	554,600	361,500
MILLE LACS	14,100	12,300	12,300	10,500	63.0	55.0	774,900	576,900
PINE	19,000	21,500	17,000	18,000	51.0	53.0	867,000	953,100
WASHINGTON	6,500	7,300	6,300	4,900	50.0	52.0	315,000	254,600
OTHER COUNTIES	3,300	4,400	2,300	1,300	54.0	46.0	124,200	60,200
EC DIST.	99,700	99,800	85,200	78,700	54.6	52.9	4,653,900	4,160,000
COTTONWOOD	15,200	54,700	13,600	4,100	81.0	50.0	1,101,600	204,800
JACKSON	7,900	64,200	6,300	3,500	79.0	57.0	497,700	199,300
LINCOLN	30,100	26,000	27,700	15,500	79.0	49.0	2,188,300	758,800
LYON	23,200	45,400	21,900	10,300	86.0	49.0	1,883,400	504,300
MURRAY	25,200	53,200	22,100	14,100	78.0	49.0	1,723,800	690,300
NOBLES	20,000	78,300	17,900	12,400	84.0	56.0	1,503,600	693,800
PIPESTONE	27,700	27,300	25,400	15,400	77.0	47.0	1,955,800	723,100
REDWOOD	18,800	57,900	16,100	11,400	87.0	58.0	1,400,700	660,700
ROCK	17,700	48,200	14,100	8,600	78.0	54.0	1,099,800	464,100
SW DIST.	185,800	455,200	165,100	95,300	80.9	51.4	13,354,700	4,899,200
BLUE EARTH	7,600	38,400	6,800	2,900	71.0	57.0	482,800	165,200
BROWN	19,700	49,000	18,000	12,800	82.0	61.0	1,476,000	780,100
FARIBAULT	6,900	49,400	5,800	6,000	75.0	55.0	435,000	329,700
FREEBORN	17,700	76,400	15,600	13,000	59.0	49.0	920,400	636,400
LESUEUR	6,300	21,800	5,200	4,600	75.0	56.0	390,000	257,400
MARTIN	8,900	55,300	6,800	5,500	85.0	57.0	578,000	313,200
NICOLLET	9,800	25,700	9,300	7,800	83.0	54.0	771,900	420,800
RICE	15,200	26,100	12,800	8,100	67.0	53.0	857,600	428,900
STEELE	10,700	25,200	9,000	7,000	62.0	57.0	558,000	398,700
WASECA	6,000	25,000	5,400	3,000	72.0	58.0	388,800	173,900
WATONWAN	3,700	33,100	2,900	2,900	82.0	59.0	237,800	171,000
SC DIST.	112,500	425,400	97,600	73,600	72.7	55.4	7,096,300	4,075,300
DAKOTA	18,200	29,900	15,500	10,800	54.0	50.0	837,000	539,600
DODGE	13,900	56,500	11,900	9,600	63.0	57.0	749,700	546,800
FILLMORE	40,000	59,700	35,200	33,400	62.0	54.0	2,182,400	1,802,000
GOODHUE	34,100	49,000	28,100	28,300	68.0	57.0	1,910,800	1,611,700
HOUSTON	23,900	32,900	17,500	17,900	60.0	61.0	1,050,000	1,091,000
MOWER	19,700	78,800	17,400	19,900	55.0	54.0	957,000	1,073,700
OLMSTED	31,000	40,800	27,200	22,300	61.0	58.0	1,659,200	1,292,200
WABASHA	27,900	28,300	24,100	20,200	64.0	59.0	1,542,400	1,190,800
WINONA	30,200	40,100	22,700	24,400	66.0	64.0	1,498,200	1,560,200
SE DIST.	238,900	416,000	199,600	186,800	62.1	57.3	12,386,700	10,708,000
***MINNESOTA	1,800,000	2,800,000	1,630,000	1,350,000	66.0	57.0	107,580,000	76,950,000

BARLEY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	50,400	47,700	49,500	38,100	56.0	56.0	2,772,000	2,133,600
CLAY	70,100	81,800	69,100	69,400	63.0	56.0	4,353,300	3,886,400
CLEARWATER	5,200	6,100	4,900	5,900	43.0	47.0	210,700	277,300
KITTSON	49,400	57,700	48,700	40,200	64.0	55.0	3,116,800	2,211,000
MAHNOMEN	46,300	54,000	45,700	49,800	60.0	57.0	2,742,000	2,838,600
MARSHALL	87,300	101,900	85,200	79,100	58.0	49.0	4,941,600	3,875,900
NORMAN	98,000	105,400	96,900	91,500	65.0	52.0	6,298,500	4,758,000
PENNINGTON	45,400	53,000	44,100	44,300	47.0	37.0	2,072,700	1,639,100
POLK	127,000	158,200	123,900	126,500	63.0	60.0	7,805,700	7,590,000
RED LAKE	25,500	29,800	25,000	28,100	49.0	42.0	1,225,000	1,180,200
ROSEAU	42,000	49,000	40,600	46,400	59.0	49.0	2,395,400	2,273,600
NW DIST.	646,600	744,600	633,600	619,300	59.9	52.7	37,933,700	32,663,700
BELTRAMI	3,700	2,900	3,600	2,800	43.0	38.0	154,800	106,400
HUBBARD	3,700	2,900	3,700	2,400	35.0	61.0	129,500	146,400
KOOCHICHING	1,500	1,200	1,500	800	42.0	43.0	63,000	34,400
LAKE OF WOODS	3,000	2,300	2,900	1,900	48.0	54.0	139,200	102,600
OTHER COUNTIES	700	500	700	400	40.0	46.0	28,000	18,400
NC DIST.	12,600	9,800	12,400	8,300	41.5	49.1	514,500	408,200
NE DIST.	500	500	400	200	37.0	35.0	14,800	7,000
BIG STONE	9,400	7,300	9,000	7,000	50.0	50.0	450,000	350,000
CHIPPEWA	1,500	1,100	1,500	800	47.0	59.0	70,500	47,200
DOUGLAS	12,000	9,300	11,700	9,100	46.0	54.0	538,200	491,400
GRANT	30,600	23,700	30,000	19,900	55.0	57.0	1,651,000	1,134,300
LAC QUI PARLE	1,300	1,000	1,300	800	50.0	63.0	65,000	50,400
OTTER TAIL	31,800	24,700	31,400	23,100	49.0	55.0	1,538,600	1,270,500
POPE	2,000	1,600	1,900	1,500	55.0	54.0	104,500	81,000
STEVENS	19,300	15,000	19,100	14,000	55.0	55.0	1,050,500	770,000
SWIFT	2,600	2,000	2,400	1,800	54.0	55.0	129,600	99,000
TRAVERSE	20,600	26,000	20,100	23,200	58.1	53.0	1,167,400	1,233,200
WILKIN	77,300	59,300	76,500	36,200	57.0	56.0	4,360,500	2,027,200
YELLOW MEDICINE	600	500	600	500	50.0	60.0	30,000	30,000
WC DIST.	209,000	171,500	205,500	137,900	54.3	55.0	11,155,800	7,584,200
KANDIYOHI	1,100	1,000	1,000	1,000	54.0	50.0	54,000	50,000
RENVILLE	1,700	1,600	1,500	1,300	50.0	45.0	75,000	58,500
STEARNS	2,400	2,100	2,200	1,200	47.0	52.0	103,400	62,400
TODD	900	800	900	800	45.0	58.0	40,500	46,400
WADENA	600	700	500	700	47.0	52.0	23,500	36,400
OTHER COUNTIES	2,600	2,600	2,600	1,900	45.7	41.1	118,700	78,100
CENT DIST.	9,300	8,800	8,700	6,900	47.7	48.0	415,100	331,800
AITKIN	700	500	700	400	45.0	36.0	31,500	14,400
ANOKA	400	500	400	300	40.0	40.0	16,000	12,000
CARLTON	800	600	700	400	35.0	38.0	24,500	15,200
CHISAGO	600	500	600	300	50.0	40.0	30,000	12,000
OTHER COUNTIES	1,900	1,500	1,900	800	40.7	43.8	77,400	35,000
EC DIST.	4,400	3,600	4,300	2,200	41.7	40.2	179,400	88,600

BARLEY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
LINCOLN	2,100	600	2,000	300	50.0	38.0	100,000	11,400
OTHER COUNTIES	2,900	1,200	2,900	200	52.7	35.0	152,800	7,000
SW DIST.	5,000	1,800	4,900	500	51.6	36.8	252,800	18,400
BLUE EARTH	600	600	500	100	66.0	50.0	33,000	5,000
MARTIN	0	500	0	100	0.0	50.0	0	5,000
NICOLLET	200	500	200	100	51.0	40.0	10,200	4,000
OTHER COUNTIES	1,700	1,900	1,600	400	55.8	50.0	89,200	20,000
SC DIST.	2,500	3,500	2,300	700	57.6	48.5	132,400	34,000
DAKOTA	1,000	500	900	200	48.0	39.0	43,200	7,800
GOODHUE	4,200	2,200	3,000	1,800	57.0	51.0	171,000	91,800
OLMSTED	500	600	500	500	56.0	48.0	28,000	24,000
WABASHA	1,300	700	1,000	500	61.0	54.0	61,000	27,000
WINONA	1,100	800	800	500	60.0	51.0	48,000	25,500
OTHER COUNTIES	2,000	1,100	1,700	500	53.7	56.0	90,300	28,000
SE DIST.	10,100	5,900	7,900	4,000	55.9	51.0	441,500	204,100
***MINNESOTA	900,000	950,000	880,000	780,000	58.0	53.0	51,040,000	41,340,000



ALL SUNFLOWERS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- POUNDS -		- POUNDS -	
BECKER	24,900	10,400	24,700	10,300	1,482.1	930.0	36,609,000	9,579,000
CLAY	33,100	19,000	31,600	18,600	1,490.3	1,202.2	47,094,500	22,360,000
CLEARWATER	4,300	2,600	3,900	2,600	1,250.0	775.0	4,875,000	2,015,000
KITTSON	25,300	11,800	19,400	10,600	1,004.4	1,360.7	19,485,000	14,317,500
MAHNOMEN	13,500	10,500	13,400	10,300	1,525.0	1,250.6	20,435,000	12,881,000
MARSHALL	39,900	19,100	34,600	18,500	909.0	938.0	31,450,000	17,353,000
NORMAN	61,400	34,900	60,400	33,700	1,424.7	1,230.7	86,052,000	41,476,000
PENNINGTON	38,700	14,300	34,200	12,600	1,020.2	673.8	34,890,000	8,624,500
POLK	66,500	38,200	62,000	36,400	1,387.5	1,040.1	86,023,500	37,858,000
RED LAKE	24,100	9,900	23,300	9,100	780.9	853.5	18,195,000	7,767,000
ROSEAU	31,500	19,600	30,200	19,200	1,238.0	1,245.6	37,387,500	23,915,000
NW DIST.	363,200	190,300	337,700	182,100	1,251.1	1,088.1	422,496,500	198,146,000
NC DIST.	6,700	2,900	5,900	2,800	1,117.8	1,100.0	6,595,000	3,080,000
BIG STONE	11,500	4,500	11,300	3,300	1,440.0	1,095.0	16,272,000	3,613,500
CHIPPEWA	3,600	1,300	3,500	1,000	1,525.0	1,100.0	5,337,500	1,100,000
DOUGLAS	2,800	1,000	2,500	700	1,600.0	1,360.0	4,000,000	952,000
GRANT	14,400	5,100	14,300	5,100	1,635.0	1,250.0	23,380,500	6,375,000
LAC QUI PARLE	1,700	600	1,700	600	1,420.0	1,200.0	2,414,000	720,000
OTTER TAIL	11,700	4,100	11,600	4,000	1,500.0	1,370.0	17,400,000	5,480,000
POPE	3,500	1,200	3,400	1,200	1,600.0	1,045.0	5,440,000	1,254,000
STEVENS	15,600	5,600	15,400	5,600	1,537.1	1,101.8	23,672,000	6,170,000
SWIFT	18,100	5,900	16,500	5,700	1,475.0	1,050.0	24,337,500	5,985,000
TRAVERSE	28,700	8,600	27,700	8,500	1,546.4	943.1	42,835,000	8,016,000
WILKIN	35,100	10,300	34,500	10,100	1,525.0	1,325.0	52,612,500	13,382,500
YELLOW MEDICINE	4,500	1,600	4,300	1,400	1,500.0	1,250.0	6,450,000	1,750,000
WC DIST.	151,200	49,800	146,700	47,200	1,528.0	1,161.0	224,151,000	54,798,000
CENT. DIST.	9,600	3,500	9,100	3,500	1,236.0	1,309.4	11,247,500	4,583,000
EC DIST.	2,700	600	2,300	600	1,126.1	1,033.3	2,590,000	620,000
SW DIST.	4,500	1,900	4,200	1,800	1,268.6	1,027.8	5,328,000	1,850,000
SC DIST.	1,700	600	1,700	600	1,348.5	1,111.7	2,292,500	667,000
SE DIST.	400	400	400	400	1,348.8	1,265.0	539,500	506,000
***MINNESOTA	540,000	250,000	508,000	239,000	1,329.2	1,105.6	675,240,000	264,250,000

MINNESOTA

Agriculture

MINNESOTA

Agriculture

Minnesota agriculture is a diversified, progressive, technology-oriented agriculture. It's the foundation for a massive food and fiber system which stretches around the globe.

Many of America's agri-business giants are headquartered in Minnesota. . .

not surprising when one considers that Minnesota has one of the most productive and highly-diversified agricultural systems in America.

The state ranks in the top 5 states producing corn, soybeans, spring wheat, wild rice, oats, barley, sunflowers, hay, sugarbeets, flax, rye, sweet corn and green peas for processing, as well as hog, turkey, milk, and cheese production.

Behind this staggering productive capacity is an agricultural system geared to today's increasingly complex food and fiber needs. . .

transportation networks, wholesale/retail food marketing systems, input suppliers, farm credit services, livestock and grain handling facilties, trade/export networks. . .

and behind it all is the mainstay of that system, the Minnesota family farm.

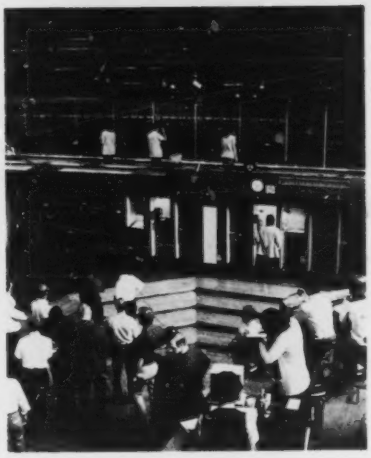
Agriculture accounts for as much as 40% of the total Minnesota exports to other states and countries.

Its reputation as a reliable supplier of high-quality farm products makes Minnesota highly competitive in world trade markets.

Minnesota's Red River Valley area is primarily a cash grain area. It's a major producer of wheat, oats, barley, sugarbeets, dry beans, potatoes, and sunflowers.

The dairy region is concentrated in central and southeastern Minnesota. Some dairy processing plants near urban centers are geared to fluid milk production while others supply dry milk, butter, cheese, and other specialty dairy products.

The rich prairie soils in southern Minnesota are the home of Minnesota's beef cattle and hogs. This area forms the northern border of the famous U.S. Corn Belt and most Minnesota corn and soybeans come from this area.



The state is served by the South St. Paul Livestock Market and by many interior packer markets.

The Minneapolis Grain Exchange is the world's largest cash grain market and carries exclusive trading in spring wheat futures.

Ranking 5th in exports, Minnesota has access to world markets throught the Great Lakes Seaway and the Mississippi River barge terminals.

GO FOR QUALITY. . .
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MINNESOTA AGRICULTURAL STATISTICS SERVICE
90 West Plato Boulevard
P.O. Box 7068
St. Paul, Minnesota 55107

POTATOES: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- CWT. -		- CWT. -	
CLAY	8,500	7,600	8,300	6,900	165	140	1,369,500	966,000
KITTSON	4,500	4,500	4,300	4,100	130	150	559,000	615,000
MARSHALL	11,300	8,300	11,000	8,000	140	150	1,540,000	1,200,000
NORMAN	2,200	1,400	2,100	1,200	150	120	315,000	144,000
POLK	26,100	25,000	24,900	22,500	155	150	3,859,000	3,375,000
NW. DIST.								
LAKE OF WOODS	600	500	600	500	165	200	99,000	100,000
SHERBURNE	4,100	3,400	4,000	3,300	295	300	1,180,000	990,000
ANOKA	500	600	500	600	245	250	122,500	150,000
HENNEPIN	1,100	1,100	1,100	1,000	235	250	258,500	250,000
FREEBORN	4,100	4,500	3,800	4,100	210	210	798,000	861,000
SEL. COUNTIES								
ALL OTHER COUNTIES	14,700	18,800	10,000	15,400	330	194	3,300,000	2,988,000
***MINNESOTA	77,700	75,700	70,600	67,600	190	172	13,401,000	11,639,000

SUGARBEETS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- TONS -		- TONS -	
CLAY	44,700	45,100	44,600	44,400	17.6	16.2	787,000	719,280
KITTSON	11,200	11,800	11,100	11,800	16.5	14.5	183,300	171,110
MARSHALL	18,400	18,500	18,200	18,500	14.8	17.4	268,500	321,900
NORMAN	20,900	22,000	20,800	21,300	19.9	18.3	414,500	389,790
POLK	70,800	72,800	70,700	72,400	18.0	19.1	1,273,600	1,382,840
NW. DIST.								
CHIPPEWA	17,200	17,700	17,100	17,500	22.1	21.2	378,700	371,000
GRANT	5,400	5,900	5,400	5,900	19.6	20.3	105,800	119,770
LAC QUI PARLE	1,200	1,000	1,200	1,000	14.9	16.3	17,900	16,300
STEVENS	800	500	800	500	19.0	19.4	15,200	9,700
SWIFT	3,600	4,100	3,500	4,000	19.8	18.4	69,300	73,600
TRAVERSE	4,300	4,400	4,300	4,400	17.7	15.0	76,100	66,000
WILKIN	22,400	23,100	22,300	22,900	20.4	17.3	455,400	395,592
YELLOW MEDICINE	1,200	1,600	1,200	1,500	20.2	14.4	24,200	21,600
WC. DIST.								
KANDIYOHI	5,300	4,400	5,200	4,300	21.6	19.5	112,300	83,850
MEEKER	300	2,100	300	2,100	21.0	19.9	6,300	41,790
RENVILLE	20,300	21,000	20,300	20,800	22.4	19.5	455,500	405,600
SIBLEY	500	700	500	700	23.0	17.9	11,500	12,530
REDWOOD	1,100	1,500	1,100	1,300	23.2	13.3	25,500	17,290
FARIBAULT	1,900	2,000	1,900	1,900	17.2	14.3	32,700	27,170
OTHER COUNTIES	1,500	1,800	1,500	1,800	16.5	14.6	24,700	15,298
SEL. COUNTIES								
***MINNESOTA	253,000	262,000	252,000	259,000	18.8	18.0	4,738,000	4,662,000

ALL HAY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
BECKER	56,900	55,800	2.8	2.5	157,900	136,800
CLAY	21,200	20,800	2.7	3.0	58,100	63,000
CLEARWATER	43,800	46,100	2.2	2.0	97,600	93,300
KITTSON	12,400	11,700	2.1	1.9	25,700	21,900
MAHNOMEN	22,800	21,700	2.4	3.4	53,600	73,300
MARSHALL	37,600	36,200	2.7	2.4	101,000	87,600
NORMAN	19,600	19,100	2.4	2.6	47,700	50,300
PENNINGTON	23,500	24,700	3.0	2.1	70,200	53,100
POLK	43,400	44,300	2.1	2.7	92,900	117,400
RED LAKE	14,700	16,400	2.1	3.4	30,500	56,100
ROSEAU	64,200	62,700	2.3	2.1	147,800	130,700
NW DIST.	360,100	359,500	2.5	2.5	883,000	883,500
BELTRAMI	55,500	57,200	1.9	1.8	103,400	100,600
CASS	53,600	54,800	1.7	1.7	89,500	91,200
HUBBARD	36,900	36,200	1.8	1.6	65,400	56,700
ITASCA	53,700	53,300	2.0	1.8	108,800	96,500
KOOCHICHING	27,500	27,100	2.0	1.8	55,700	48,100
LAKE OF WOODS	23,800	22,800	2.4	2.2	57,500	51,200
NC DIST.	251,000	251,400	1.9	1.8	480,300	444,300
COOK	800	900	1.6	1.7	1,300	1,510
LAKE	1,800	1,900	1.6	1.7	2,900	3,292
ST LOUIS	72,500	73,600	1.7	1.6	125,600	114,298
NE DIST.	75,100	76,400	1.7	1.6	129,800	119,100
BIG STONE	12,200	11,700	2.9	3.4	35,500	39,200
CHIPPEWA	9,100	8,600	3.5	3.1	32,200	26,300
DOUGLAS	40,100	40,400	3.2	3.3	130,200	132,100
GRANT	10,700	10,200	3.5	2.9	37,500	29,600
LAC QUI PARLE	13,800	13,600	2.8	2.8	38,600	38,200
OTTER TAIL	167,500	167,800	2.8	3.4	474,700	575,300
POPE	29,700	28,200	3.5	3.9	103,800	109,400
STEVENS	9,100	8,600	3.8	3.5	34,800	30,100
SWIFT	14,700	13,800	2.9	3.7	42,400	51,100
TRAVERSE	8,600	7,700	2.5	1.7	21,800	13,400
WILKIN	14,500	13,500	2.4	2.6	34,900	35,500
YELLOW MEDICINE	16,000	16,000	3.4	3.3	53,900	53,000
WC DIST.	346,000	340,100	3.0	3.3	1,040,300	1,133,200
BENTON	39,400	38,700	2.9	2.8	113,600	109,500
CARVER	33,900	33,200	4.0	3.8	137,100	127,600
KANDIYOHI	29,400	28,300	3.9	3.8	115,900	106,300
MCLEOD	23,900	23,800	3.5	3.4	84,400	82,000
MEEKER	28,600	27,500	3.3	3.5	94,900	96,500
MORRISON	87,500	85,100	2.8	2.7	243,400	227,900
RENVILLE	12,000	11,600	3.7	3.8	44,500	43,800
SCOTT	21,600	21,200	4.0	3.8	87,100	80,100
SHERBURNE	18,400	17,800	3.2	2.8	59,700	50,100
SIBLEY	22,000	22,600	3.9	3.5	85,000	80,200
STEARNS	134,200	132,500	3.5	3.4	470,100	450,000
TODD	89,400	86,000	2.6	2.7	232,600	231,600
WADENA	56,600	55,300	2.4	2.5	135,400	139,000
WRIGHT	52,100	51,100	3.5	3.4	180,700	174,500
CENT. DIST.	649,000	634,700	3.2	3.1	2,084,400	1,999,100

ALL HAY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
AITKIN	64,300	65,800	1.7	2.2	106,200	147,100
ANOKA	12,900	13,200	2.6	2.3	33,700	31,000
CARLTON	56,600	57,300	1.8	2.1	99,600	118,900
CHISAGO	26,800	26,300	2.8	3.1	76,000	80,500
CROW WING	27,600	28,100	1.9	2.0	53,500	55,100
HENNEPIN	19,900	19,800	3.4	3.4	67,900	67,700
ISANTI	20,800	21,400	2.5	2.8	51,500	60,800
KANABEC	41,300	42,900	2.3	2.8	96,200	119,400
MILLE LACS	44,000	43,100	2.7	2.7	120,900	114,300
PINE	97,100	87,700	2.1	2.6	181,200	224,682
RAMSEY	800	800	2.4	1.8	1,900	1,418
WASHINGTON	24,500	24,000	2.5	2.8	60,900	68,200
EC DIST.	426,600	430,400	2.2	2.5	949,500	1,089,100
COTTONWOOD	12,500	12,000	4.1	3.6	51,000	43,500
JACKSON	8,900	9,100	2.9	4.3	26,000	39,500
LINCOLN	28,000	28,300	3.1	3.5	87,000	99,900
LYON	21,400	21,300	3.5	4.0	74,300	86,000
MURRAY	21,800	21,300	3.5	3.8	76,200	81,100
NOBLES	16,100	16,100	4.0	3.4	63,900	55,300
PIPESTONE	23,200	23,300	2.9	3.4	66,400	78,900
REDWOOD	13,400	13,100	4.3	3.4	57,000	44,300
ROCK	17,900	18,000	3.1	4.2	55,800	75,100
SW DIST.	163,200	162,500	3.4	3.7	557,600	603,600
BLUE EARTH	6,800	6,600	3.5	3.2	23,700	21,000
BROWN	18,000	16,500	4.3	3.8	77,800	62,900
FARIBAULT	6,800	6,200	3.6	3.3	24,800	20,500
FREEBORN	13,900	12,300	3.3	3.1	46,300	38,600
LESUEUR	17,400	16,600	3.2	3.3	54,900	55,600
MARTIN	9,800	9,000	4.3	3.6	42,200	32,800
NICOLLET	12,100	10,800	3.9	4.0	47,200	43,400
RICE	31,800	28,600	3.8	3.0	121,000	86,500
STEELE	15,700	14,200	3.1	3.5	48,500	49,400
WASECA	9,700	9,100	3.2	3.7	31,000	33,900
WATONWAN	5,700	5,400	3.3	3.4	18,800	18,100
SC DIST.	147,700	135,300	3.6	3.4	536,200	462,700
DAKOTA	19,900	20,400	3.8	3.2	76,000	65,200
DODGE	23,800	22,900	3.5	3.5	83,800	79,200
FILLMORE	76,100	75,500	3.3	3.2	248,500	244,200
GOODHUE	70,600	66,600	3.5	3.5	245,800	234,200
HOUSTON	59,000	57,300	3.5	4.3	206,600	244,500
MOWER	22,300	21,600	3.4	3.3	75,400	70,900
OLMSTED	55,600	55,000	4.0	3.8	222,500	210,800
WABASHA	55,800	56,600	3.7	3.7	204,300	212,100
WINONA	68,200	63,800	3.5	3.5	240,000	220,300
SE DIST.	451,300	439,700	3.6	3.6	1,602,900	1,581,400
***MINNESOTA	2,870,000	2,830,000	2.9	2.9	8,264,000	8,316,000

ALFALFA HAY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
BECKER	43,400	42,000	3.1	2.8	135,500	117,600
CLAY	16,400	16,100	3.1	3.5	50,900	55,900
CLEARWATER	30,800	32,600	2.2	2.1	69,000	69,000
KITTSON	8,600	8,100	2.3	2.1	19,700	17,000
MAHNOMEN	21,100	20,000	2.5	3.5	51,700	70,200
MARSHALL	29,600	28,000	3.0	2.8	88,900	78,400
NORMAN	16,200	15,700	2.6	2.8	41,500	44,500
PENNINGTON	16,800	18,000	3.5	2.4	58,100	43,200
POLK	28,400	28,900	2.6	3.1	72,900	89,700
RED LAKE	9,600	11,400	2.2	3.9	20,700	45,600
ROSEAU	42,200	41,400	2.5	2.6	106,100	107,600
NW DIST.	263,100	262,200	2.7	2.8	715,000	738,700
BELTRAMI	35,600	36,300	1.9	2.0	69,100	72,600
CASS	13,600	14,300	1.9	2.2	26,000	31,000
HUBBARD	15,200	14,600	2.0	2.0	31,000	29,200
ITASCA	12,200	11,900	1.7	2.3	20,800	26,800
KOOCHICHING	10,500	10,000	2.8	2.2	28,900	22,000
LAKE OF WOODS	17,000	15,500	2.5	2.6	43,000	40,200
NC DIST.	104,100	102,600	2.1	2.2	218,800	221,800
ST LOUIS	8,900	9,300	2.1	2.1	18,600	19,900
OTHER COUNTIES	200	200	2.5	2.0	500	400
NE DIST.	9,100	9,500	2.1	2.1	19,100	20,300
BIG STONE	8,800	8,500	3.4	4.1	30,100	34,800
CHIPPEWA	7,500	7,100	4.0	3.3	29,900	23,700
DOUGLAS	32,200	32,400	3.5	3.5	111,900	113,800
GRANT	8,900	8,300	3.7	3.1	33,300	25,900
LAC QUI PARLE	9,200	9,000	3.2	3.3	29,300	30,100
OTTER TAIL	126,400	126,000	2.9	3.4	370,400	428,300
POPE	24,400	22,800	3.8	4.2	92,200	94,800
STEVENS	8,400	7,900	3.9	3.6	32,900	28,600
SWIFT	10,400	9,600	3.3	4.1	34,300	39,400
TRAVERSE	7,400	6,500	2.7	1.8	19,700	11,800
WILKIN	8,200	7,500	3.0	3.1	24,200	23,500
YELLOW MEDICINE	10,800	10,900	3.1	3.5	33,800	38,200
WC DIST.	262,600	256,500	3.2	3.5	842,000	892,900
BENTON	24,500	23,700	3.0	3.2	74,300	75,000
CARVER	29,600	28,800	4.2	3.9	123,900	111,000
KANDIYOHI	25,800	24,600	4.1	3.9	105,300	95,200
MCLEOD	19,700	19,500	3.6	3.7	71,900	71,700
MEEKER	24,800	23,500	3.5	3.7	85,800	86,000
MORRISON	53,700	51,300	3.1	3.1	163,800	160,000
RENVILLE	9,700	9,200	3.7	4.0	36,200	36,600
SCOTT	18,700	18,200	4.1	3.9	77,500	71,100
SHERBURNE	14,700	13,900	3.5	3.2	51,800	44,500
SIBLEY	18,300	18,800	4.0	3.8	74,100	70,900
STEARNS	109,400	107,200	3.5	3.5	384,800	375,400
TODD	66,800	63,100	2.8	3.0	189,200	186,900
WADENA	30,100	28,200	2.3	3.0	68,100	84,800
WRIGHT	44,000	43,100	3.6	3.5	156,400	152,100
CENT. DIST.	489,800	473,100	3.4	3.4	1,663,100	1,621,200

ALFALFA HAY: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA (CONT'D)

DISTRICT AND COUNTY	ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983
	- ACRES -		- TONS -		- TONS -	
AITKIN	9,100	9,800	2.0	2.5	18,600	24,200
ANOKA	8,300	8,600	2.8	2.6	23,100	22,400
CARLTON	14,000	14,200	2.1	1.9	29,100	26,400
CHISAGO	17,500	16,900	3.1	3.5	53,400	59,800
CROW WING	8,400	8,500	2.7	2.3	22,900	19,700
HENNEPIN	17,100	16,900	3.5	3.6	59,300	60,500
ISANTI	13,900	14,300	2.7	3.3	37,000	46,700
KANABEC	18,400	19,200	2.6	3.2	47,400	61,600
MILLE LACS	21,600	20,700	2.7	3.0	57,600	62,300
PINE	32,300	32,500	2.4	2.8	79,100	90,600
RAMSEY	600	600	2.3	1.8	1,400	1,100
WASHINGTON	20,800	20,200	2.5	3.0	51,200	59,600
EC DIST.	182,000	182,400	2.6	2.9	480,100	534,900
COTTONWOOD	11,300	10,700	4.3	4.0	48,200	42,800
JACKSON	7,100	7,100	3.1	3.8	21,700	27,000
LINCOLN	21,800	22,200	3.3	3.7	71,900	82,100
LYON	16,100	16,100	3.7	4.2	60,200	67,600
MURRAY	19,600	19,000	3.5	3.8	69,400	72,200
NOBLES	13,500	13,300	4.1	3.8	55,100	50,500
PIPESTONE	17,700	17,900	3.0	3.5	53,700	62,700
REDWOOD	10,800	10,600	4.7	3.8	50,400	40,300
ROCK	14,000	14,200	3.2	3.9	44,700	55,400
SW DIST.	131,900	131,100	3.6	3.8	475,300	500,600
BLUE EARTH	5,700	5,400	3.6	3.5	20,600	19,000
BROWN	16,900	15,400	4.4	3.9	74,100	60,500
FARIBAULT	5,000	4,500	4.0	3.4	20,000	15,200
FREEBORN	11,900	10,400	3.4	3.3	40,800	34,000
LESUEUR	15,100	14,200	3.3	3.6	49,300	50,900
MARTIN	7,100	6,400	4.5	3.8	31,900	24,500
NICOLLET	10,700	9,500	4.0	4.3	42,400	40,700
RICE	28,900	25,500	3.8	3.3	111,200	84,100
STEELE	14,400	12,700	3.1	3.5	44,800	44,500
WASECA	8,600	7,900	3.2	3.8	27,400	30,000
WATONWAN	4,400	4,000	3.3	3.7	14,400	14,800
SC DIST.	128,700	115,900	3.7	3.6	476,900	418,200
DAKOTA	14,400	15,000	4.0	3.4	57,400	51,700
DODGE	19,800	19,000	3.6	3.4	72,000	65,400
FILLMORE	63,000	62,100	3.2	3.2	202,600	196,200
GOODHUE	64,300	60,100	3.5	3.5	225,800	210,800
HOUSTON	51,700	50,100	3.5	4.2	181,600	210,400
MOWER	19,100	18,500	3.4	3.3	65,600	61,000
OLMSTED	44,300	43,500	4.0	4.0	179,400	175,000
WABASHA	49,400	50,000	3.7	3.8	182,700	187,800
WINONA	52,700	48,400	3.5	3.4	182,600	163,100
SE DIST.	378,700	366,700	3.6	3.6	1,349,700	1,321,400
***MINNESOTA	1,950,000	1,900,000	3.2	3.3	6,240,000	6,270,000

FLAX: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	4,100	3,400	4,000	3,000	13.0	14.0	52,000	42,000
CLAY	3,000	2,500	2,700	2,200	17.5	15.5	47,300	34,100
CLEARWATER	900	700	600	600	15.0	12.0	9,000	7,200
KITTSON	1,100	3,700	800	3,400	16.0	15.0	12,800	51,000
MAHNOMEN	1,100	900	1,000	800	13.0	13.0	13,000	10,400
MARSHALL	10,400	8,600	7,500	7,700	14.5	11.0	108,800	84,700
NORMAN	800	700	700	700	15.0	13.0	10,500	9,100
PENNINGTON	3,100	2,600	2,500	2,000	10.0	10.0	25,000	20,000
POLK	8,300	6,000	7,100	5,400	12.0	12.0	85,200	64,800
RED LAKE	1,000	800	900	700	12.0	11.0	10,800	7,700
ROSEAU	43,100	33,500	39,600	30,200	15.0	13.0	594,100	392,600
NW DIST.	76,900	63,400	67,400	56,700	14.4	12.8	968,500	723,600
LAKE OF WOODS	6,500	3,800	6,500	3,300	12.5	14.0	81,000	46,200
OTHER COUNTIES	1,100	700	1,100	500	9.8	11.6	10,800	5,800
NC DIST.	7,600	4,500	7,600	3,800	12.1	13.7	91,800	52,000
NE DIST.	600	400	600	400	12.0	12.0	7,200	4,800
BIG STONE	3,800	1,300	3,800	1,100	15.0	14.0	57,000	15,400
DOUGLAS	2,500	900	2,500	800	16.0	14.0	40,000	11,200
GRANT	1,900	700	1,700	600	15.5	14.0	26,400	8,400
LAC QUI PARLE	1,300	500	1,300	400	16.0	12.0	20,800	4,800
OTTER TAIL	2,500	900	2,200	800	15.5	12.0	34,100	9,600
TRAVERSE	3,700	1,200	3,700	1,000	14.0	11.0	51,800	11,000
WILKIN	1,300	500	1,300	400	16.5	15.0	21,500	6,000
OTHER COUNTIES	2,800	1,100	2,800	900	14.8	11.4	41,400	10,300
WC DIST.	19,800	7,100	19,300	6,000	15.2	12.8	293,000	76,700
CENT. DIST.	0	200	0	0	0.0	0.0	0	0
EC DIST.	0	300	0	300	0.0	11.3	0	3,400
LINCOLN	8,100	4,300	8,100	3,700	19.0	10.0	153,900	37,000
PIPESTONE	5,800	3,100	5,800	2,600	19.5	9.0	113,100	23,400
OTHER COUNTIES	1,200	1,000	1,200	900	18.8	10.3	22,500	9,300
SW DIST.	15,100	8,400	15,100	7,200	19.2	9.7	289,500	69,700
SC DIST.	0	700	0	600	0.0	13.0	0	7,800
***MINNESOTA	120,000	85,000	110,000	75,000	15.0	12.5	1,650,000	938,000

Go For QUALITY...
...Go For MINNESOTA GROWN

RYE: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED		ACREAGE HARVESTED		YIELD PER HARVESTED ACRE		PRODUCTION	
	1982	1983	1982	1983	1982	1983	1982	1983
	- ACRES -		- ACRES -		- BUSHELS -		- BUSHELS -	
BECKER	2,100	4,200	1,800	3,400	32.0	27.0	57,600	91,800
CLAY	1,900	6,400	1,500	5,100	33.0	31.0	49,500	158,100
CLEARWATER	900	1,800	800	1,400	30.0	36.0	24,000	50,400
KITTSON	2,000	4,000	1,600	3,200	37.0	30.0	59,200	96,000
MAHNOMEN	2,100	4,200	1,700	3,400	38.0	30.0	64,600	102,000
MARSHALL	5,700	8,700	4,900	6,900	32.0	29.0	156,800	200,100
NORMAN	2,000	4,000	1,800	3,200	36.0	30.0	64,800	96,000
PENNINGTON	1,400	2,800	1,200	2,300	33.0	25.0	39,600	57,500
POLK	5,100	6,900	4,400	5,600	31.0	32.0	136,400	179,200
RED LAKE	1,000	2,000	900	1,600	31.0	33.0	27,900	52,800
ROSEAU	1,800	6,800	1,500	5,500	33.0	33.0	49,500	181,500
NW DIST.	26,000	51,800	22,100	41,600	33.0	30.4	729,900	1,265,400
NC DIST.	3,900	2,400	3,400	2,300	29.6	30.2	100,800	69,400
NE DIST.	0	100	0	100	0.0	27.0	0	2,700
BIG STONE	3,400	8,200	2,900	6,500	39.0	40.0	113,100	260,000
CHIPPEWA	400	1,000	400	900	38.0	38.0	15,200	34,200
DOUGLAS	2,800	6,800	2,500	5,600	33.0	31.0	82,500	173,600
GRANT	1,200	2,900	1,000	2,400	37.0	32.0	37,000	76,800
LAC QUI PARLE	1,000	2,400	900	2,000	35.0	35.0	31,500	70,000
OTTER TAIL	4,900	11,800	4,200	9,600	32.0	30.0	134,400	288,000
POPE	1,500	3,600	1,200	3,000	33.0	32.0	39,600	96,000
STEVENS	1,300	3,100	1,100	2,600	32.0	34.0	35,200	88,400
SWIFT	2,300	5,600	2,000	4,500	37.0	36.0	74,000	162,000
TRAVERSE	2,400	5,800	2,100	4,700	38.0	35.0	79,800	164,500
WILKIN	800	1,900	700	1,500	30.0	32.0	21,000	48,000
YELLOW MEDICINE	500	1,200	400	900	38.0	36.0	15,200	32,400
WC DIST.	22,500	54,300	19,400	44,200	35.0	33.8	678,500	1,493,900
BENTON	3,800	5,000	3,000	3,900	26.0	35.0	78,000	136,500
CARVER	400	500	300	400	30.0	32.0	9,000	12,800
KANDIYOHI	1,400	1,800	1,100	1,400	39.0	34.0	42,900	47,600
MCLEOD	1,100	1,400	900	1,100	32.0	30.0	28,800	33,000
MEEKER	1,900	2,500	1,500	1,900	30.0	32.0	45,000	60,800
MORRISON	2,400	4,200	1,900	3,300	33.0	32.0	62,700	105,600
RENVILLE	500	700	400	500	36.0	35.0	14,400	17,500
SCOTT	1,600	2,100	1,000	1,600	28.0	30.0	28,000	48,000
SHERBURNE	15,100	18,700	12,200	14,000	31.0	26.0	378,200	364,000
SIBLEY	400	500	300	400	30.0	30.0	9,000	12,000
STEARNS	4,700	6,100	3,700	4,700	34.0	33.0	125,800	155,100
TODD	1,600	2,100	1,200	1,600	30.0	32.0	36,000	51,200
WADENA	800	1,000	700	800	30.0	25.0	21,000	20,000
WRIGHT	2,400	3,100	1,400	2,400	33.0	31.0	46,200	74,400
CENT. DIST.	38,100	49,700	29,600	38,000	31.3	30.0	925,000	1,138,500
AITKIN	500	1,600	500	1,400	30.0	28.0	15,000	39,200
ANOKA	3,300	4,000	2,700	3,400	28.0	29.0	75,600	98,600
CARLTON	500	600	400	500	30.0	28.0	12,000	14,000
CHISAGO	4,300	5,200	3,900	4,500	29.0	26.0	113,100	117,000
CROW WING	500	600	400	500	30.0	25.0	12,000	12,500
HENNEPIN	800	1,000	600	900	32.0	28.0	19,200	25,200
ISANTI	6,600	7,000	5,600	6,100	37.0	27.0	207,200	164,600
KANABEC	500	600	400	500	31.0	27.0	12,400	13,500
PINE	500	600	400	500	31.0	28.0	12,400	14,000
WASHINGTON	400	500	400	400	35.0	30.0	14,000	12,000
OTHER COUNTIES	500	600	500	500	28.4	27.4	14,200	13,700
EC DIST.	18,400	22,300	15,800	19,200	32.1	27.3	507,100	524,300
LINCOLN	1,300	1,600	1,100	1,300	38.0	33.0	41,800	42,900
MURRAY	200	600	200	300	39.0	36.0	7,800	10,800
NOBLES	1,000	1,000	800	1,000	40.0	32.0	32,000	32,000
PIPESTONE	500	600	300	500	35.0	35.0	10,500	17,500
OTHER COUNTIES	800	1,500	800	1,300	35.5	32.5	28,400	42,300
SW DIST.	3,800	5,300	3,200	4,400	37.7	33.1	120,500	145,500
BLUE EARTH	0	700	0	400	0.0	30.0	0	12,000
BROWN	700	800	600	400	36.0	32.0	21,600	12,800
FARIBAULT	300	700	300	400	40.0	33.0	12,000	13,200
FREEBORN	400	900	300	600	37.0	32.0	11,100	19,200
LESUEUR	300	700	200	400	40.0	31.0	8,000	12,400
MARTIN	300	700	300	400	37.0	34.0	11,100	13,600
NICOLLET	600	1,000	500	600	35.0	31.0	17,500	18,600
RICE	600	1,000	500	600	38.0	32.0	19 000	19,200
STEELE	300	700	300	400	39.0	31.0	11,700	12,400
WASECA	300	700	300	400	40.0	33.0	12,000	13,200
WATONWAN	0	500	0	300	0.0	33.0	0	9,900
SC DIST.	3,800	8,400	3,300	4,900	37.6	31.9	124,000	156,500
DAKOTA	800	1,300	600	1,200	35.0	30.0	21,000	36,000
FILLMORE	300	500	300	500	37.0	34.0	11,100	17,000
GOODHUE	500	800	500	700	35.0	32.0	17,500	22,400
HOUSTON	500	800	500	700	35.0	30.0	17,500	21,000
WABASHA	600	1,000	500	900	37.0	30.0	18,500	27,000
WINONA	300	500	300	500	34.0	31.0	10,200	15,500
OTHER COUNTIES	500	800	500	800	36.8	31.1	18,400	24,900
SE DIST.	3,500	5,700	3,200	5,200	35.7	30.9	114,200	163,800
***MINNESOTA	120,000	200,000	100,000	160,000	33.0	31.0	3,300,000	4,960,000

DRY EDIBLE BEANS: ACREAGE, YIELD, AND PRODUCTION, BY DISTRICTS AND COUNTIES, MINNESOTA

DISTRICT AND COUNTY	ACREAGE PLANTED 1982	ACREAGE PLANTED 1983	ACREAGE HARVESTED 1982	ACREAGE HARVESTED 1983	YIELD PER HARVESTED ACRE 1982	YIELD PER HARVESTED ACRE 1983	PRODUCTION 1982	PRODUCTION 1983
	- ACRES -		- ACRES -		- POUNDS -		- CWT -	
BECKER	1,800	700	1,500	700	950	830	14,300	5,800
CLAY	4,900	1,400	4,300	1,300	1,100	1,100	47,500	14,300
KITTSON	900	600	500	500	800	620	4,000	3,100
MARSHALL	12,300	4,600	5,900	4,500	780	1,070	46,000	48,200
POLK	15,900	6,400	10,900	6,100	880	1,040	95,900	63,400
NW DIST.								
CHIPPEWA	1,500	900	1,400	800	1,580	990	22,100	7,900
GRANT	2,500	600	900	600	1,040	1,150	9,400	6,900
LAC QUI PARLE	700	500	600	500	1,600	1,040	9,600	5,200
OTTER TAIL	10,400	4,300	7,700	4,000	1,550	1,150	119,400	45,800
POPE	1,000	500	800	500	1,400	1,360	11,200	6,800
STEVENS	1,500	600	1,400	600	1,300	1,250	18,200	7,500
SWIFT	1,600	1,000	1,500	900	1,600	1,140	24,000	10,300
WILKIN	2,000	900	1,500	900	1,290	1,140	19,300	10,300
YELLOW MEDICINE	2,100	900	1,900	900	1,600	1,200	30,400	10,800
WC DIST.								
BENTON	1,200	700	1,000	700	1,900	1,700	19,000	11,900
KANDIYOHI	1,500	1,100	1,300	900	1,600	930	20,800	8,400
MORRISON	1,200	700	1,100	600	1,400	1,030	15,400	6,200
RENVILLE	7,500	3,400	7,300	3,100	1,750	1,310	127,800	40,700
STEARNS	1,900	800	1,800	700	1,300	1,170	23,400	8,200
WADENA	1,600	900	1,400	800	1,100	1,240	15,400	9,900
CENT. DIST.								
CASS	800	500	700	500	900	1,240	6,300	6,200
HUBBARD	6,800	3,300	6,100	3,200	1,200	1,460	73,200	46,600
REDWOOD	1,100	600	1,000	500	1,730	1,200	17,300	6,000
MOWER	1,100	900	900	900	1,500	1,460	13,500	13,100
SEL. COUNTIES								
OTHER COUNTIES	11,200	5,200	9,600	4,300	1,520	1,130	145,600	48,500
***MINNESOTA	95,000	42,000	73,000	39,000	1,300	1,160	949,000	452,000

DRY EDIBLE BEANS

AVERAGE COMPLETION DATES FOR MINNESOTA PLANTING AND HARVESTING

Crop and Year	Date PLANTING Completed					Date HARVESTING Completed				
	10 Percent	25 Percent	50 Percent	75 Percent	90 Percent	10 Percent	25 Percent	50 Percent	75 Percent	90 Percent
Corn:										
1983	MAY 4	MAY 11	MAY 18	MAY 25	JUN 2	SEP 29	OCT 5	OCT 15	OCT 26	NOV 2
1982	APR 30	MAY 5	MAY 13	MAY 26	JUN 4	OCT 22	OCT 31	NOV 8	NOV 23	DEC 10
1979-83	APR 30	MAY 6	MAY 14	MAY 23	MAY31	OCT 7	OCT 18	OCT 30	NOV 11	NOV 27
Soybeans:										
1983	MAY 18	MAY 23	MAY 28	JUN 4	JUN 11	SEP 27	OCT 4	OCT 13	OCT 29	NOV 5
1982	MAY 12	MAY 24	MAY 31	JUN 8	JUN 12	OCT 3	OCT 19	OCT 27	OCT 31	NOV 7
1979-83	MAY 11	MAY 18	MAY 25	JUN 2	JUN 10	SEP 29	OCT 6	OCT 15	OCT 28	NOV 4
Spring Wheat:										
1983	APR 27	APR 30	MAY 5	MAY 12	MAY 22	AUG 3	AUG 8	AUG 12	AUG 18	AUG 25
1982	APR 27	APR 30	MAY 4	MAY 17	MAY 28	AUG 6	AUG 12	AUG 19	SEP 2	SEP 9
1979-83	APR 15	APR 24	MAY 2	MAY 14	MAY 26	AUG 3	AUG 10	AUG 18	SEP 1	SEP 11
Oats:										
1983	APR 24	APR 30	MAY 5	MAY 13	MAY 20	JUL 31	AUG 3	AUG 8	AUG 13	AUG 19
1982	APR 25	APR 28	MAY 3	MAY 8	MAY 25	JUL 30	AUG 4	AUG 10	AUG 17	AUG 28
1979-83	APR 17	APR 24	MAY 2	MAY 11	MAY 22	JUL 29	AUG 3	AUG 10	AUG 20	SEP 3
Barley:										
1983	APR 27	MAY 2	MAY 6	MAY 15	MAY 24	JUL 28	AUG 2	AUG 7	AUG 12	AUG 17
1982	APR 28	MAY 2	MAY 9	MAY 26	MAY 30	JUL 29	AUG 3	AUG 12	AUG 22	SEP 1
1979-83	APR 19	APR 26	MAY 5	MAY 20	MAY 29	JUL 28	AUG 1	AUG 9	AUG 20	SEP 1
Flax:										
1983	MAY 14	MAY 21	MAY 29	JUN 6	JUN 14	AUG 14	AUG 22	AUG 29	SEP 28	OCT 22
1982	MAY 6	MAY 19	MAY 29	JUN 10	JUN 17	AUG 23	SEP 6	SEP 21	OCT 24	NOV 10
1979-83	MAY 3	MAY 12	MAY 24	JUN 4	JUN 13	AUG 21	SEP 1	SEP 18	OCT 5	OCT 26
Sunflowers:										
1983	MAY 15	MAY 21	MAY 28	JUN 3	JUN 10	OCT 1	OCT 13	OCT 22	OCT 31	NOV 9
1982	MAY 18	MAY 26	MAY 31	JUN 7	JUN 13	OCT 20	OCT 28	NOV 3	NOV 15	NOV 29
1979-83	MAY 7	MAY 16	MAY 26	JUN 3	JUN 10	SEP 30	OCT 9	OCT 23	NOV 3	NOV 18
Alfalfa Hay: 1/										
1983						JUN 7	JUN 12	JUN 21	JUL 1	JUL 13
1982			NOT APPLICABLE			JUN 5	JUN 10	JUN 15	JUN 22	JUL 2
1979-83						JUN 7	JUN 12	JUN 19	JUN 28	JUL 7
Winter Wheat:										
1983	AUG 25	SEP 1	SEP 8	SEP 18	SEP 26	JUL 26	JUL 30	AUG 3	AUG 7	AUG 12
1982	AUG 28	SEP 3	SEP 9	SEP 17	SEP 26	JUL 28	AUG 2	AUG 6	AUG 12	AUG 18
1979-83	AUG 27	SEP 3	SEP 12	SEP 21	SEP 30	JUL 25	JUL 30	AUG 5	AUG 13	AUG 20
Rye:										
1983	AUG 27	SEP 4	SEP 10	SEP 20	SEP 26	JUL 25	JUL 30	AUG 3	AUG 6	AUG 11
1982	AUG 29	SEP 3	SEP 10	SEP 18	SEP 26	JUL 30	AUG 3	AUG 7	AUG 11	AUG 16
1979-83	AUG 29	SEP 4	SEP 13	SEP 22	SEP 30	JUL 25	JUL 31	AUG 6	AUG 13	AUG 22
Sugarbeets:										
1983	APR 26	APR 29	MAY 4	MAY 9	MAY 17	SEP 23	OCT 4	OCT 15	OCT 23	OCT 28
1982	APR 24	APR 28	MAY 3	MAY 7	MAY 21	SEP 21	OCT 9	OCT 20	OCT 25	OCT 29
1979-83	APR 18	APR 25	MAY 2	MAY 14	MAY 23	OCT 1	OCT 8	OCT 15	OCT 24	OCT 29

1/ First Cutting.

PESTICIDES
USED ON MINNESOTA FARMS

IN 1983

Minnesota farmers used pesticides at least once on 97% of their soybean and sugarbeet acreage planted for harvest in 1983. Corn was nearly as extensively treated (95%), followed by flax (94%), sunflowers (93%), and wheat (92%). Total acres of small grains harvested were 56% treated. No mor_ than 1% of hay acreage was treated. Farmers used pesticides on 2% of their pasture land and on 30% of their cropland idled by government programs in 1983.

The 1983 Pesticide Survey conducted by the Minnesota Agricultural Statistics Service also showed that while the percent of acreage treated was up slightly from the previous year for most crops, the actual area to which pesticides were applied was down sharply due to heavy participation in the PIK program. When the state's total corn, soybean , small grain, sunflower, sugarbeet, flax and hay acreage is added up, 76% of the total crop acreage received some kind of pesticide application (herbicides, insecticides, fungicides, or any combination). This compares with 77% of the total 1982 crop acreage treated. For the crops just listed, area treated in 1983 was 13.7 million acres compared with 17.0 million acres in 1982.

When multiple applications are added up, herbicides accounted for 9 out of 10 acres treated. Multiple herbicide applications were most common for corn, soybeans, wheat, and sugarbeets. Insecticide usage was dominated by the corn pre-emergence insecticides which accounted for 67% of total treatment for insect pests. Few farmers applied insecticides to a crop more than once. Most sugarbeet acres were treated with multiple applications of fungicides.

ACREAGE TREATED AT LEAST ONCE WITH SOME PESTICIDE IN MINN.

Crop Or Other Land Use	Acreage Planted	Minimum Acreage Treated With Some Pesticide 1/	Percent Of Acreage Treated
	---1,000 Acres---		Percent
Corn	5,100	4,856	95.2
Soybeans	4,950	4,812	97.2
Wheat	2,340	2,162	92.4
Sunflowers	250	233	93.2
Sugarbeets 2/	261	253	96.9
Flax	85	80	94.1
	Acreage Harvested (1,000 Acres)		
Other Sm. Grains 3/	2,290	1,275	55.7
Alfalfa Hay	1,900	15	0.8
Other Hay	930	1	0.1
	Acreage In Each Use (1,000 Acres)		
Pasture	-----	----	2.4
Cropland Idled by Gov't Programs In 1983 4/	4,950	1,473	29.8
	Total Acreage (1,000 Acres)		
Total (excl.Idle & Pasture)	18,106	13,687	75.6
Total (excl. Pasture)	23,056	15,160	65.8

1/ At least this acreage was treated with some pesticide--either herbicides, insecticides, fungicides, or any combination. An acre receiving more than one application is counted only once. 2/ Minimum acreage treated and percent treated based on data published in 1983 SUGARBEET RESEARCH AND EXTENSION REPORTS, Cooperstive Extension Service, Fargo, N.D. 3/ Oats, barley, rye. 4/ Includes PIK and set-aside land idle or planted to a cover crop. Acres in this use are from ASCS.

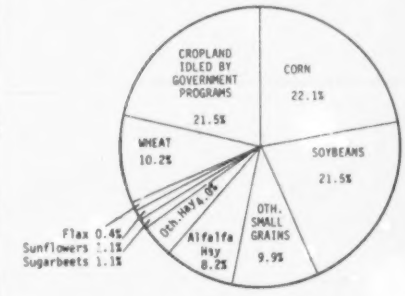
ACREAGE TREATED WITH PESTICIDES BY TYPE OF CONTROL IN MINN.

Crop Or Other Land Use	Total Acres Treated 1/ For:		
	Weeds	Insects	Diseases
	---1,000 Acres---		
Corn:			
Pre-Emergence	4,232	1,055	---
Post-Emergence 2/	2,970	91	---
Total	7,202	1,146	0
Soybeans 2/	6,341	32	0
Wheat 2/	2,858	116	264
Oth.Small Grains 2/	1,606	38	67
Sunflowers 2/	279	111	0
Sugarbeets 3/	605	119	620
Flax	80	0	0
Alfalfa Hay	13	3	0
Other Hay	1	0	0
Cropland Idled by Gov't Programs	1,596	2	0
TOTAL	20,581	1,567	951

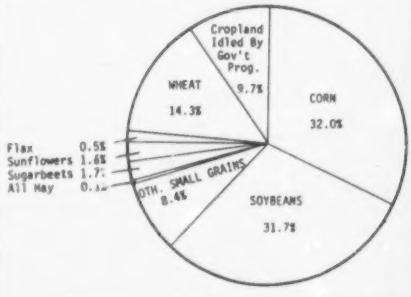
1/ Each pesticide application to an acre is counted as an acre treated and is included in this table. 2/ Estimated insect and disease treatments based on data provided by Plant Industry Division, Minnesota Department of Agriculture. 3/ Estimated weed, insect, and disease treatments based on data published in 1983 SUGARBEET RESEARCH AND EXTENSION REPORTS, Cooperative Extension Service, Fargo, N.D.

COMPARISONS OF ACREAGES IN EACH LAND USE & ACRES TREATED WITH PESTICIDES

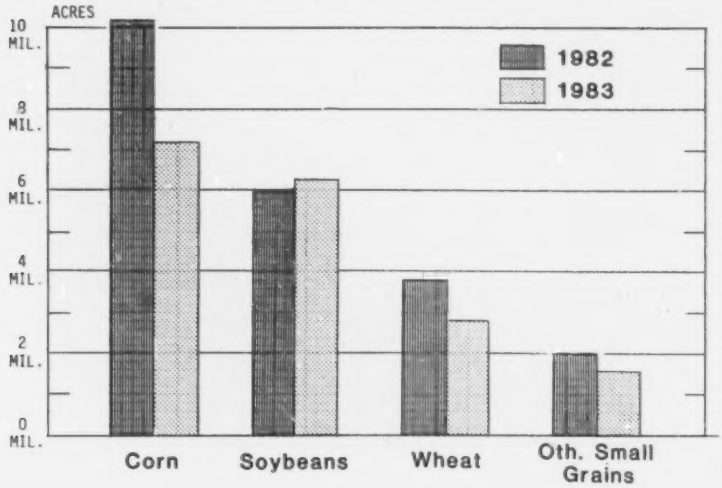
Proportion of Total Acres In Each Land Use (Excl. Pasture), Table 1:



Proportion of Minimum Acres Treated (Excluding Pasture), Table 1:



TOTAL ACRES OF HERBICIDE TREATMENTS, 1982 & 1983



RATE OF APPLICATION AND ACREAGE TREATED WITH MAJOR PESTICIDES, MINNESOTA, 1983

HERBICIDES

Crop Or Other Land Use and Chemicals Used 1/	Average Rate of Application per Acre 2/			Acreage Treated
	Wettable Powder	Granular Product	Liquid	
	Pounds	Pounds	Quarts	1,000 Acres
CORN: PRE-EMERGENCE:				
Alachlor (Lasso)	----	11.1	3.4	1,342
Alachlor + Atrazine (Lasso + Aatrex)	--/2.0	----	2.1/1.6	527
Alachlor + Cyanazine (Lasso + Bladex)	--/1.8	----	2.1/1.9	431
Atrazine (Aatrex)	2.5	----	2.3	333
Propachlor (Ramrod)	----	10.4	----	320
Metolachlor (Dual)	----	----	1.7	311
EPTC and protectant (Eradicane)	----	----	3.0	250
Cyanazine (Bladex)	----	----	2.8	162
Butylate and protectant (Sutan Plus)	----	----	2.7	102
EPTC & protectant + Cyanazine (Eradicane + Bladex)	----	----	2.5/1.9	91
Metolachlor + Atrazine (Dual + Aatrex)	----	----	1.4/1.9	90
Other Herbicides				273
TOTAL				4,232
CORN: POST-EMERGENCE:				
2,4-D + Dicamba (2,4-D + Banvel)	---	----	0.2/0.2	606
Dicamba (Banvel)	---	----	0.3	579
2,4-D Amine	---	----	0.4	486
2,4-D Ester	---	----	0.4	461
Atrazine (Aatrex)	2.4	----	2.4	290
Cyanazine (Bladex)	2.3	----	---	125
Alachlor + Atrazine (Lasso + Aatrex)	--/1.9	----	1.8/1.3	117
Atrazine + Oil (Aatrex + Oil)	2.2	----	1.9	68
Other Herbicides				238
TOTAL				2,970
SOYBEANS:				
Trifluralin (Treflan)	---	----	0.9	2,058
Bentazon (Basagran)	---	----	0.8	750
Alachlor (Lasso)	---	10.3	3.2	664
Chloramben (Amiben)	---	9.1	3.6	581
Trifluralin + Metribuzin (Treflan + Sencor)	--/0.5	----	0.9/0.3	457
Alachlor + Metribuzin (Lasso + Sencor)	--/0.6	----	2.7/0.4	241
Alachlor + Chloramben (Lasso + Amiben)	---	----	1.9/3.0	236
Trifluralin + Chloramben (Treflan + Amiben)	---	----	0.9/3.5	193
Profluralin (Tolban)	---	----	1.1	111
Trifluralin + Metribuzin (Treflan + Lexone)	--/0.5	----	0.8/---	105
Fluchloralin (Basalin)	---	----	1.1	103
Alachlor + Linuron (Lasso + Lorox)	--/1.6	----	2.2/1.2	98
Other Herbicides				744
TOTAL				6,341

RATE OF APPLICATION AND ACREAGE TREATED WITH MAJOR PESTICIDES, MINNESOTA, 1983 (Cont'd)

HERBICIDES

Crop Or Other Land Use and Chemicals Used 1/	Average Rate of Application per Acre 2/			Acreage Treated
	Wettable Powder	Granular Product	Liquid	
	Pounds	Pounds	Quarts	1,000 Acres
WHEAT:				
2,4-D Amine	---	----	0.3	541
MCPA	---	----	0.5	346
Triallate (Far-Go)	---	13.0	1.0	346
Bronate*	---	----	0.6	323
MCPA + Dicamba (MCPA + Banvel)	---	----	0.4/0.1	233
Difenzoquat (Avenge)	---	----	1.5	187
2,4-D Ester	---	----	0.4	150
Triallate + Trifluralin (Far-Go + Treflan)	---	----	1.1/0.5	148
Barban (Carbyne)	---	----	0.6	122
2,4-D + Dicamba (2,4-D + Banvel)	---	----	0.3/0.1	85
Diclofop (Hoelon)	---	----	1.2	83
Dicamba (Banvel)	---	----	0.1	75
Other Herbicides				219
TOTAL				2,858
OTHER SMALL GRAINS:				
MCPA	---	----	0.4	401
2,4-D Amine	---	----	0.3	383
Triallate (Far-Go)	---	12.9	1.0	199
MCPA + Dicamba (MCPA + Banvel)	---	----	0.3/0.1	125
Bronate*	---	----	0.5	115
Difenzoquat (Avenge)	---	----	---	62
Other Herbicides				321
TOTAL				1,606
SUNFLOWERS:				
Trifluralin (Treflan)	---	----	0.9	154
Other Herbicides				125
TOTAL				279
SUGARBEETS: 3/				
Betamix*	---	----	---	136
EPTC + Diallate (Eptam + Avadex)	---	----	---	75
Desmedipham (Betanex)	---	----	---	57
Diallate (Avadex)	---	----	---	45
Betamix* + Endothall (Betamix* + H-273)	---	----	---	38
Other Herbicides				254
TOTAL				605
ALFALFA HAY:				
EPTC (Eptam)	---	----	---	8
Other Herbicides				5
TOTAL				13
CROPLAND IDLED:				
2,4-D Ester	---	----	0.5	560
2,4-D Amine	---	----	0.5	415
Glyphosate (Roundup)	---	----	1.0	328
Dicamba (Banvel)	---	----	0.3	124
2,4-D + Dicamba (2,4-D + Banvel)	---	----	0.4/0.2	80
Other Herbicides				89
TOTAL				1,596

INSECTICIDES

CORN, PRE-EMERGENCE:				
Fonofos (Dyfonate)	---	5.6	---	271
Terbofos (Counter)	---	7.3	---	271
Phorate (Thimet)	---	7.3	---	205
Carbofuran (Furadan)	---	9.2	---	160
Other Insecticides				148
TOTAL				1,055

1/ Common names of the chemicals are listed first, followed by the familiar trade names in parentheses. The inclusion of a product does not imply approval nor does exclusion imply disapproval.

2/ For mixtures, the rate of application for the first chemical is listed before the slash under each formulation and the application rate for the second chemical is listed after the slash. For example, the mixture of Treflan and Amiben has application rates of 0.9/3.5 under "liquid" for soybeans. This means the average rate of application for Treflan is .9 quart per acre and the rate for Amiben is 3.5 quarts per acre. Rates of application denote amounts of undiluted material used per acre (including both active ingredients and carrier materials.)

3/ Estimated acreage treated by product based on data published in 1983 SUGARBEET RESEARCH AND EXTENSION REPORTS, Cooperative Extension Service, Fargo, N.D.

* Trade name.

METHOD OF APPLICATION, MINNESOTA, 1983 (Major Uses Only)

HERBICIDES

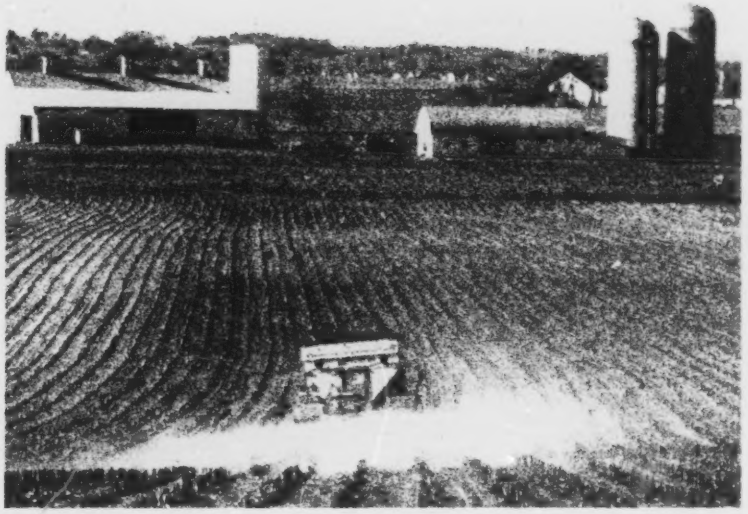
Crop or Other Land Use	Self Applied	Custom Applied	Aerially Applied	Ground Applied	Incorp. Into Soil
	Percent 1/		Percent 2/		
Corn:					
Pre-Emergence	84	16	0	75	25
Post-Emergence	78	22	2	98	0
Soybeans	88	12	1	52	47
Wheat	87	13	6	81	13
Oth.Sm.Grains	83	17	5	88	7
Land Idled by Gov't Programs	89	11	2	97	1
TOTAL	85	15	2	76	22
INSECTICIDES					
Corn:					
Pre-Emergence	95	5	0	83	17

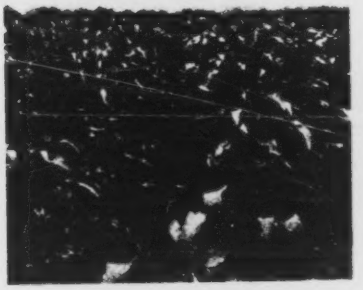
1/ Percent of reported treated acreage.
2/ Percent of reports.

PROTECTIVE MEASURES & PESTICIDE USAGE PRACTICES, MINNESOTA, 1983

Question	Percent Answering "YES" 1/
1. Did you use any of the following protective clothing or equipment while handling pesticide chemicals in 1983?	
a. Protective cab on tractor	49
b. Respirator	12
c. Goggles	30
d. Rubber gloves	57
e. Rubber boots	16
f. Spray suit	2
2. How did you dispose of the empty pesticide containers?	
a. Burned	43
b. Buried on own property	19
c. Buried in sanitary landfill	20
d. Returned to distributor	16
e. Used as containers for oil or fuel	2
f. Reused for other or unspecified purposes	4
g. Recycled or sold for scrap	4
h. Kept; not disposed of yet	21
i. Other disposal method	1
3. While handling pesticides in 1983, did you experience any symptoms of pesticide poisoning? 2/	3
4. During 1983, did you use Malathion to protect farm-stored grain from insect damage?	13
5. Did you use any fumigants on your farm-stored grain?	10
6. (If "yes" to 5:) Was the fumigant self-applied?	86
7. (If "yes" to 6:) Did you use a full-face, canister gas mask while applying the fumigant?	31

1/ Percents may total more than 100% because of multiple responses. 2/ Of respondents replying "yes", 5 or more reported the following symptoms, listed in order of number reporting: Nausea or upset stomach; headache; respiratory irritation or trouble breathing; dizziness or weakness; rash or itch.





1983 PADDY WILD RICE STATISTICS
(Information Provided by Minnesota Paddy Wild Rice Research and Promotion Council)

Wild rice, Minnesota's official State Grain, is grown as a field crop on 20,000 acres in northern Minnesota. The leading counties are Aitkin, Clearwater, Beltrami, Itasca and Cass.

Acreage and yields are increasing as production problems are being solved by growers and researchers. Average yield per acre has steadily increased. In 1968 only 900 acres were in production, yielding 36,000 pounds of processed grain. In 1983, 20,000 acres produced over 3,200,000 pounds of process grain. Average yield per acre increased 400% in 16 years, from 40 pounds to 160 pounds per acre.

Minnesota continues to rank first in the world in wild rice production.

For the first time, production has exceeded 3 million pounds of processed grain. The 3.2 million pounds of wild rice produced in Minnesota's paddies in 1983 is an increase of 14% over the 2.8 million pounds produced in 1982.

The value of the 1983 crop was $11 million. At $3.50 per pound for processed wild rice this is a 22% increase over the value of last year's crop at $9 million.

The number of farm operations producing wild rice in 1983 was 67. Average acreage in wild rice production per farm operation increased from 250 acres in 1982 to 300 acres in 1983.

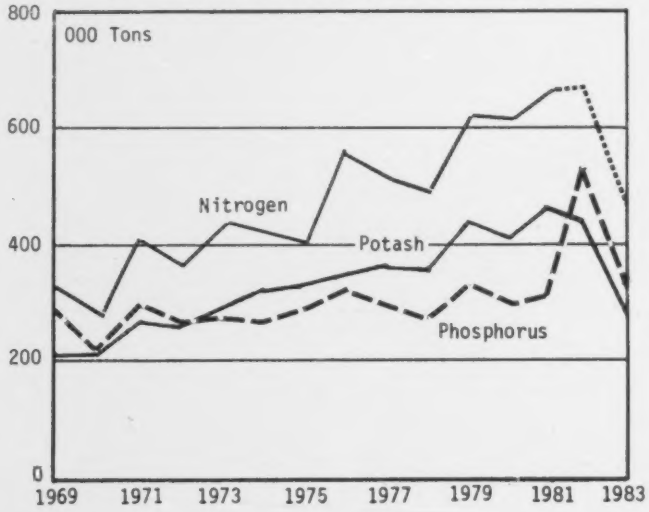
MINNESOTA FERTILIZER USAGE

Minnesota consumption of fertilizer dropped 29% from 1982-83 as the PIK program sharply reduced plantings.

For the year ending June 30, 1983, Minnesota consumption of fertilizer totaled 1.17 million tons versus 1.65 for the previous year.

Fertilizer consumption represents all commercial fertilizer tonnage sold or shipped for farm and non-farm use as fertilizer.

MINNESOTA'S
USE OF PRIMARY NUTRIENTS AS FERTILIZER



Section III.

LIVESTOCK, DAIRY, POULTRY

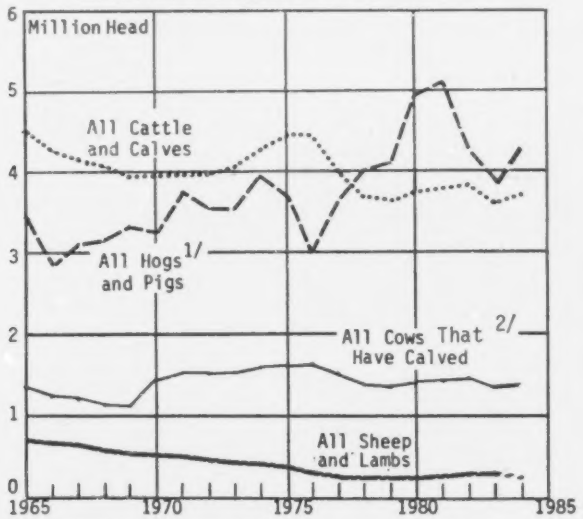
LIVESTOCK

Cattle numbers on Minnesota farms on January 1, 1984 were up 2% from a year earlier while sheep and lamb numbers were down 15%. The inventory of all hogs on December 1, 1983 was up 9% and all chickens on farms increased 5%.

The combined value of all livestock and poultry on Minnesota farms was $2,002 million, a 9% decrease from last year's $2,194 million. All cattle and calves, valued at $1,716 million, were 5% less than a year ago. The value of hogs on hand December 1, 1983 accounted for $241 million, down 30%; all sheep and lambs, $12.6 million, down 19%; all chickens $22.2 million, up 1%; and turkey breeder hens $9.6 million, up 17%.

The number of operations with cattle and milk cows each declined 1,000 while hogs declined 2,000 and sheep declined 200 (see page 3).

LIVESTOCK ON MINNESOTA FARMS, JANUARY 1



1/ December 1 preceding year.
2/ Prior to 1970, "All cows 2 years & older."

...Go For MINNESOTA GROWN

MINNESOTA LIVESTOCK AND POULTRY

Class	Number on Farms			Value per Head			Total Farm Value		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
	1,000 Head			Dollars			1,000 Dollars		
All Cattle And Calves, January 1.....	3,880	3,610	3,690	535.00	500.00	465.00	2,075,800	1,805,000	1,715,850
Total Cows That Have Calved.	1,490	1,371	1,387						
Beef Cows.....	585	481	477						
Milk Cows.....	905	890	910						
Total Heifers 500 Pounds+...	688	686	701						
Beef Replacement.....	108	90	79						
Milk Replacement.....	360	332	346						
Other.....	220	264	276						
Steers 500 Pounds+.....	649	617	641						
Bulls 500 Pounds+.....	53	43	44						
Steers, Heifers, Bulls, Under 500 Pounds.....	1,000	893	917						
All Hogs & Pigs, Dec. 1 1/..	4,300	3,900	4,270	67.50	88.00	56.50	290,250	343,200	241,255
All Sheep & Lambs, Jan. 1 ...	335	300	255	52.00	52.00	49.50	17,420	15,600	12,623
Stock Sheep.....	275	235	200						
Ewes 1 Year+.....	199	186	160						
Ewe Lambs.....	58	36	28						
Wethers & Rams 1 Year+.....	7	6	6						
Wethers & Ram Lambs.....	11	7	6						
Sheep & Lambs On Feed.....	60	65	55						
All Chickens, Dec. 1 1/.....	13,600	13,300	13,900	1.50	1.65	1.60	20,400	21,945	22,240
Hens & Pullets of Laying Age.	10,600	10,500	10,600						
Pullets 3 Months Old+, Not of Laying Age.....	1,370	1,400	1,600						
Pullets Under 3 Months.....	1,530	1,300	1,650						
Other Chickens.....	100	100	50						
Turkey Breeder Hens, Dec. 1 1/	567	523	443	17.80	15.70	21.60	10,093	8,211	9,569
TOTAL.....							2,413,963	2,193,956	2,001,537

1/ December 1 preceding year.

CATTLE & CALVES DISPOSITION

Year	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths	
		Cattle	Calves	Cattle & Calves	Cattle	Calves
	1,000 Head					
1979	647	1428	136	15	68	190
1980	762	1705	131	14	52	160
1981	700	1636	129	15	50	160
1982	670	1842	170	15	58	155
1983	650	1529	165	16	65	155

1/ Excludes interfarm sales.
2/ Excludes custom slaughter for farmers at commercial establishments.

MINNESOTA CATTLE & CALF INVENTORIES, PRODUCTION, AND INCOME

Year	On Farms, January 1			Calves Born	Marketings 1/	Price Per 100 Lbs.		Cash 2/ Receipts	Gross Income 3/
	All Cattle	All Cows That Have Calved	Milk Cows That Have Calved			Cattle	Calves		
	1,000 Head			1,000 Head	1,000 Lbs.	Dollars		1,000 Dols.	1,000 Dols.
1979	3,650	1,380	850	1,290	1,557,765	58.90	81.90	922,904	943,822
1980	3,750	1,420	860	1,350	1,873,240	55.70	78.30	1,048,616	1,069,763
1981	3,800	1,450	880	1,370	1,863,600	50.80	67.40	950,493	970,803
1982	3,880	1,490	905	1,300	2,068,290	48.60	60.30	1,008,875	1,028,997
1983	3,610	1,371	890	1,360	1,747,035	47.60	59.70	835,367	856,373
1984	3,690	1,387	910	--	--	--	--	--	--

1/ Excludes interfarm sales.
2/ Includes receipts from marketings and sales of farm slaughtered meat.
3/ Includes value of home consumption on farms.

MINNESOTA CATTLE AND CALVES ON FEED BY QUARTERS

Year and Quarter	Classes				Weight Groups 1/			
	Number	Steers and Steer Calves	Heifers & Heifer Calves	Other	Under 500 Lbs.	500-699 Lbs.	700-899 Lbs.	900 Lbs. and Over
	1,000 Head				1,000 Head			
1979: January 1...	400	256	140	4	45	124	119	108
April 1.....	340	228	112	0	20	143	91	86
July 1.....	320	208	112	0	6	49	165	100
October 1...	265	186	79	0	7	24	89	145
1980: January 1...	390	253	135	2	48	112	95	133
April 1.....	400	268	132	0	18	149	122	111
July 1.....	365	233	132	0	6	46	170	143
October 1...	310	205	105	0	7	35	103	165
1981: January 1...	370	251	117	2	39	112	99	118
April 1.....	405	267	138	0	22	159	131	93
July 1.....	390	265	125	0	10	55	163	162
October 1...	310	211	96	3	9	33	99	166
1982: January 1...	350	234	112	4	40	106	78	122
April 1.....	415	266	145	4	9	160	149	93
July 1.....	405	255	146	4	8	65	164	164
October 1...	310	205	102	3	9	37	96	165
1983: January 1...	405	263	138	4	35	124	106	136
April 1.....	405	267	134	4	18	120	121	142
July 1.....	355	233	119	3	7	51	144	150
October 1...	240	161	77	2	7	26	83	122
1984: January 1...	375	244	127	4	25	109	104	133
April 1.....	350	228	119	3	15	92	122	118

1/ "Other" class not included in "Weight Groups".

MINNESOTA HOGS AND PIGS BY QUARTERS

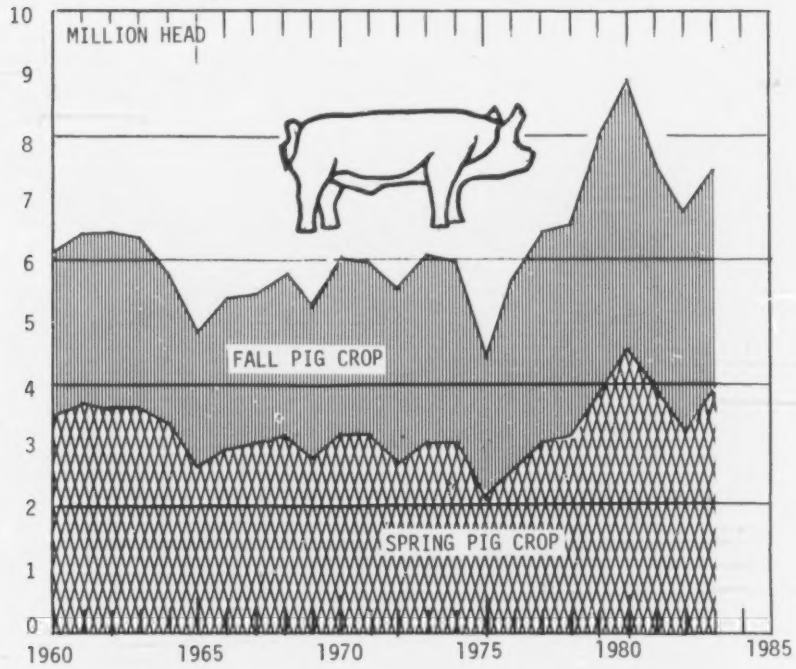
Year and Quarter	All Hogs and Pigs	For Breeding Purposes	Market Hogs and Pigs			
			Under 60 Lbs.	60-119 Lbs.	120-179 Lbs.	180 Lbs. and Over
	1,000 Head	1,000 Head	1,000 Head			
1979: March.....	4,120	721	1,513	765	679	442
June.....	4,500	788	1,726	910	575	501
September...	4,600	760	1,785	920	655	480
December....	4,900	784	1,634	1,153	856	473
1980: March.....	4,950	742	1,843	922	862	581
June.....	5,000	775	1,901	1,077	697	550
September...	5,100	740	1,940	1,090	740	590
December....	5,100	816	1,778	1,070	900	536
1981: March.....	4,450	665	1,442	980	780	583
June.....	4,350	650	1,610	906	647	537
September...	4,250	590	1,596	945	625	494
December....	4,300	580	1,470	1,004	707	539
1982: March.....	3,870	530	1,269	875	698	498
June.....	3,780	578	1,304	794	592	512
September...	3,950	573	1,520	888	550	419
December....	3,900	550	1,374	888	653	435
1983: March.....	4,170	592	1,395	920	680	583
June.....	4,470	598	1,607	952	736	577
September...	4,330	533	1,458	923	801	615
December....	4,270	580	1,470	940	730	550
1984: March.....	3,950	530	1,220	860	770	570

MINNESOTA SOWS FARROWED, PIG CROP, AND DISPOSITION

Year	Spring		Fall		Annual Total		Inshipments	Marketings 1/	Farm 2/ Slaughter	Deaths	All Hogs On Farms Dec. 1
	Sows Farrowed	Pig Crop	Sows Farrowed	Pig Crop	Sows Farrowed	Pig Crop					
	1,000 Head		1,000 Head		1,000 Head		1,000 Head				
1979	540	3,905	560	4,101	1,100	8,006	254	6,888	42	530	4,900
1980	615	4,612	580	4,324	1,195	8,936	226	8,361	51	550	5,100
1981	530	3,978	490	3,623	1,020	7,601	215	8,116	30	470	4,300
1982	440	3,270	475	3,588	915	6,858	217	7,055	20	400	3,900
1983	500	3,886	470	3,595	970	7,481	176	6,862	15	410	4,270

1/ Excludes interfarm sales.
2/ Excludes custom slaughter for farmers at commercial establishments.

TOTAL MINNESOTA PIG CROP 1/



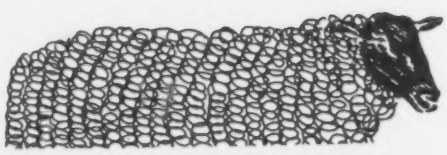
1/ Fall pig crop is for June through November. Spring pig crop is for December of the previous year through May current year.

MINNESOTA HOG PRODUCTION AND INCOME

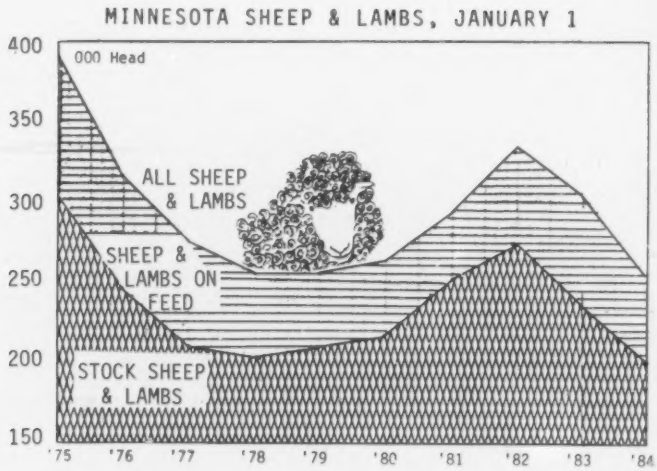
Year	Production 1/	Marketings 2/	Price Per 100 Lbs.	Cash Receipts 3/	Gross Income 4/
	1,000 Pounds		Dollars	1,000 Dollars	
1979	1,692,992	1,552,249	42.00	660,372	679,172
1980	1,934,920	1,896,236	38.30	732,598	741,271
1981	1,694,340	1,798,028	43.60	792,788	801,241
1982	1,536,200	1,588,145	52.60	847,678	854,747
1983	1,600,060	1,547,980	46.90	733,756	739,497

1/ Adjustments made for number shipped in and changes in inventory.
2/ Excludes interfarm sales.
3/ Includes receipts from marketings and sales of farm slaughtered meats.
4/ Includes value of home consumption on farms.

Charting
MINNESOTA Agriculture



MINNESOTA SHEEP AND LAMBS



Year	On Farms, January 1			Lambs Saved	Marketings 1/	Cash Receipts 2/	Gross Income 3/
	Total All Sheep and Lambs	On Feed For Market	Stock (Breeding) Sheep				
	1,000 Head			1,000 Head		1,000 Dollars	
1979	255	45	210	198	184	11,602	11,796
1980	264	47	217	205	194	11,408	11,623
1981	295	45	250	245	223	11,120	11,398
1982	335	60	275	245	305	14,716	15,126
1983	300	65	235	235	299	15,480	15,654
1984	255	55	200	---	---	------	------

1/ Excludes interfarm sales.
2/ Includes receipts from marketings and sales of farm slaughtered meat.
3/ Includes value of home consumption on farms.

MINNESOTA WOOL

Year	Sheep Shorn 1/	Production		Annual Average Price Per Pound 2/	Value
		Per Fleece	Total		
	1,000 Head	Pounds	1,000 Pounds	Cents	1,000 Dollars
1979	252	7.7	1,933	71	1,372
1980	275	7.2	1,990	73	1,453
1981	308	7.3	2,252	70	1,576
1982	310	7.3	2,264	48	1,087
1983	305	6.9	2,110	39	823

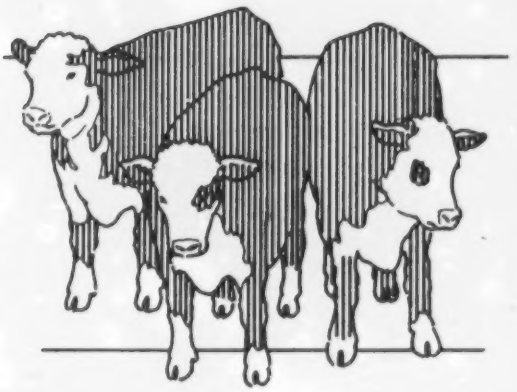
1/ Includes sheep shorn at commercial feeding yards.
2/ Average local market price for wool sold; does not include incentive payments.

MINNESOTA COMMERCIAL LIVESTOCK SLAUGHTER

Month	CATTLE						CALVES					
	Number Slaughtered		Liveweight Average Weight		Liveweight Total Weight		Number Slaughtered		Liveweight Average Weight		Liveweight Total Weight	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
	1,000 Head		Pounds		1,000 Pounds		1,000 Head		Pounds		1,000 Pounds	
January.....	89.7	107.2	1,108	1,123	99,391	120,395	0.4	0.4	192	210	83	86
February....	85.5	82.0	1,106	1,154	94,530	94,595	0.4	0.5	209	202	82	92
March.....	79.8	88.5	1,123	1,161	89,650	102,745	0.5	0.5	206	200	101	91
April.....	79.2	80.1	1,136	1,163	89,983	93,203	0.4	0.4	198	221	93	94
May.....	75.2	85.4	1,118	1,155	84,075	98,656	0.5	0.4	215	216	93	79
June.....	81.2	100.2	1,118	1,148	90,812	115,048	0.4	0.3	207	230	84	67
July.....	80.7	93.4	1,122	1,142	90,513	106,680	0.3	0.4	192	211	65	74
August.....	77.0	102.3	1,117	1,119	85,990	114,557	0.4	0.3	197	208	71	67
September...	81.9	103.9	1,121	1,117	91,781	116,015	0.4	0.4	197	195	79	80
October.....	102.1	107.6	1,117	1,126	114,011	121,124	0.5	0.4	200	191	88	85
November....	96.0	101.4	1,108	1,133	106,365	114,915	0.4	0.5	188	194	83	97
December....	109.3	112.7	1,102	1,118	120,400	125,977	0.5	0.5	188	198	102	100
ANNUAL TOTAL.....	1,037.6	1,164.8	1,116	1,137	1,157,501	1,323,910	5.1	4.9	200	205	1,024	1,012
	HOGS						SHEEP AND LAMBS					
January.....	462.7	425.7	239	242	110,583	102,891	49.3	51.1	111	114	5,477	5,819
February....	430.7	383.2	235	238	101,068	91,370	48.4	41.6	113	116	5,488	4,822
March.....	517.0	534.4	234	239	121,235	127,565	49.6	48.6	116	117	5,778	5,667
April.....	503.5	493.4	237	242	119,577	119,173	42.5	34.5	118	120	4,999	4,155
May.....	452.0	477.7	238	243	107,797	116,214	37.2	36.4	115	115	4,272	4,183
June.....	427.8	436.2	239	243	102,362	105,883	45.0	7.6	108	114	4,847	867
July.....	389.9	476.4	237	242	92,552	115,203	52.2	34.8	107	107	5,567	3,733
August.....	450.9	532.5	237	239	106,861	127,157	56.0	47.7	107	107	5,988	5,081
September...	506.6	568.2	239	237	120,917	134,582	58.5	49.0	107	108	6,288	5,297
October.....	452.3	545.9	241	241	109,011	131,468	45.8	44.9	109	108	4,998	4,866
November....	446.0	470.9	245	247	109,160	116,246	50.4	38.9	110	110	5,564	4,279
December....	497.6	448.8	247	247	122,970	110,913	60.8	41.2	112	111	6,807	4,588
ANNUAL TOTAL.....	5,537.0	5,793.5	239	241	1,324,093	1,398,665	595.7	476.3	111	112	66,073	53,357

Note: Totals may not add due to rounding. Monthly totals in 1982 derived, consistent with previously published quarterly estimates (revised).

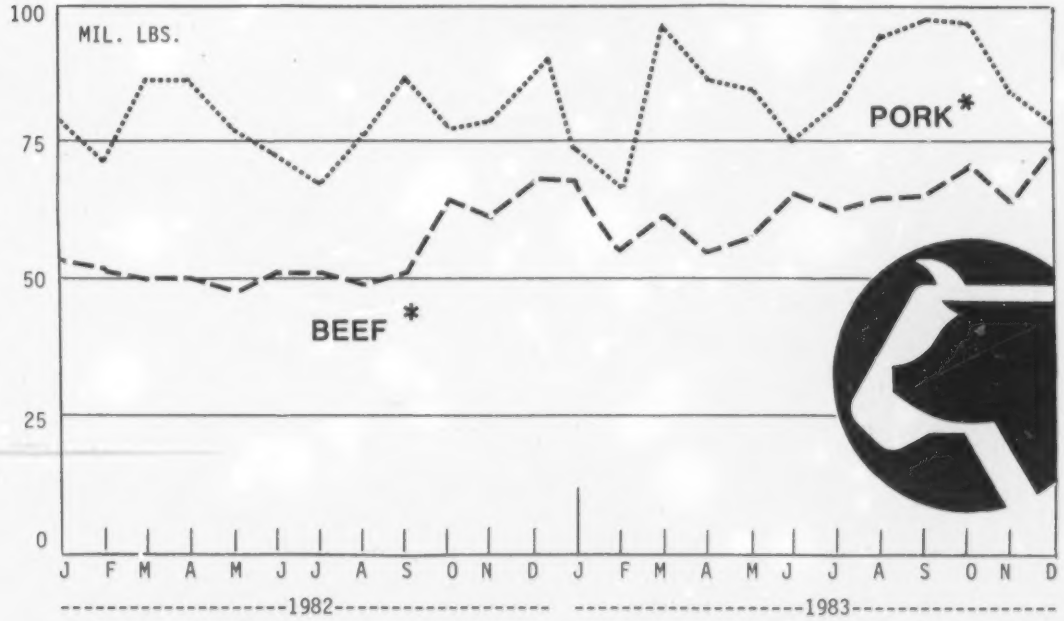
Go For QUALITY...



Charting MINNESOTA Agriculture

MINNESOTA'S BEEF AND PORK PRODUCTION

(Dressed Weight)



*Total dressed weight of cattle and hogs commercially slaughtered.

...Go For MINNESOTA GROWN

DAIRY

Minnesota's milk production totaled 10.9 billion pounds in 1983, 6% higher than 1982. The state's share of national production in 1983 was 8%. The 12-month average number of milk cows was 899 versus 903 in 1982.

The average milk per cow was 12,139 in 1983, up 687 pounds from 1982.

The count of plant patrons selling milk or cream in June 1983 totaled 24,776. This compares with the revised totals of 25,491 for June 1982 and 25,210 for June 1981. For 85 years, from 1850 to 1935, the state added approximately 2,000 farms with milk cows each year. During the following 45 years (1935-1980), the number of dairy farms decreased at a rate of 3,500 farms per year. The decrease has been interrupted with more level counts quoted in this review for 1980-83.

MINNESOTA MILK PRODUCTION, DISPOSITION, AND INCOME

Year	Total Milk Produced	Disposition of Milk Produced			Cash Receipts	Gross Producer Income
		Used on Farm Where Produced		Sale of Wholesale Milk		
		Fed to Calves	Consumed in Farm Household			
	Mil.Lbs.	Million Pounds			1,000 Dollars	1,000 Dollars
1979	9,145	53	27	9,065	1,026,158	1,029,214
1980	9,535	47	23	9,465	1,173,660	1,176,512
1981	10,061	50	21	9,990	1,306,692	1,309,439
1982	10,341	50	21	10,270	1,333,046	1,335,772
1983	10,913	56	22	10,835	1,402,049	1,404,896

MINNESOTA MANUFACTURED DAIRY PRODUCTS

Year	Butter	All Cheese	American Cheese	Non-Fat Dry Milk Solids	Dry Whey & Whey Fraction Solids	Ice Cream	Ice Milk	Milk Sherbet
	1,000 Pounds					1,000 Gallons		
1979	154,872	479,952	419,304	151,144	252,833	32,523	5,122	1,507
1980	162,911	512,361	453,459	171,643	271,185	32,888	5,310	1,578
1981	176,122	558,004	490,734	186,069	276,596	33,772	5,263	1,629
1982	179,226	567,430	501,619	188,193	291,547	35,137	6,065	1,567
1983	177,574	587,544	529,203	204,223	293,972	37,422	6,245	1,873

MINNESOTA MONTHLY DAIRY PRODUCTION

MILK COWS ON FARMS, EXCLUDES HEIFERS THAT HAVE NOT CALVED
(1,000 Head)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1979	850	845	840	833	833	830	835	840	845	850	855	860	843
1980	855	850	850	850	855	855	860	865	870	875	880	880	862
1981	880	880	880	880	880	880	880	885	890	895	900	905	886
1982 1/	910	910	910	910	910	910	900	900	900	890	890	890	903
1983	890	891	892	894	896	898	900	902	904	906	908	910	899

MILK PRODUCTION ON FARMS
(Million Pounds)

1979	786	761	857	829	875	863	760	689	638	672	667	748	9,145
1980	774	765	859	859	906	889	808	753	709	713	708	792	9,535
1981	840	814	955	933	968	942	836	774	730	725	725	819	10,061
1982 1/	883	842	960	950	997	965	860	789	745	775	755	820	10,341
1983	926	882	1,004	997	1,039	1,006	923	848	786	811	808	883	10,913

PERCENTAGE OF FAT IN MILK SOLD BY FARMERS TO DAIRY PLANTS
(Percent)

1979	3.72	3.68	3.65	3.64	3.62	3.55	3.51	3.54	3.63	3.75	3.77	3.75	3.65
1980	3.71	3.68	3.69	3.64	3.57	3.51	3.48	3.50	3.63	3.75	3.77	3.75	3.64
1981	3.70	3.66	3.62	3.60	3.57	3.53	3.51	3.53	3.62	3.75	3.74	3.73	3.63
1982	3.73	3.68	3.66	3.65	3.60	3.55	3.51	3.50	3.64	3.75	3.75	3.72	3.65
1983	3.70	3.67	3.64	3.64	3.60	3.52	3.47	3.44	3.58	3.74	3.79	3.80	3.63

BUTTER MANUFACTURED
(Million Pounds)

1979	14.8	13.5	15.7	15.1	15.8	15.0	12.4	11.5	9.1	10.5	10.0	11.5	154.9
1980	12.6	13.4	14.7	15.2	15.1	13.8	13.0	13.9	12.9	12.2	12.2	13.9	162.9
1981	14.5	13.6	15.8	15.8	16.4	15.1	13.5	14.4	13.5	13.9	14.2	15.4	176.1
1982 1/	15.8	14.8	16.7	16.4	16.8	16.2	14.7	13.6	13.5	13.2	13.3	14.4	179.2
1983	15.6	14.5	16.6	16.4	16.8	15.9	13.6	13.5	13.0	13.5	13.7	14.4	177.6

AMERICAN CHEESE MANUFACTURED
(Million Pounds)

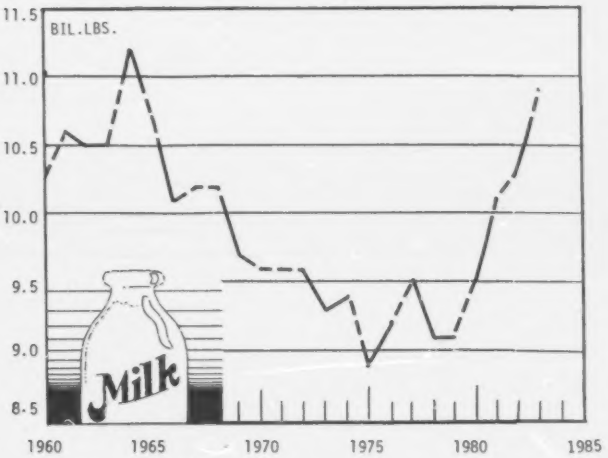
1979	39.1	34.2	36.7	36.2	38.2	36.2	33.7	30.6	30.4	32.9	33.9	37.1	419.3
1980	38.8	37.9	39.3	38.6	41.3	40.4	36.1	33.5	32.5	37.2	36.1	41.7	453.5
1981	44.5	41.4	46.7	45.0	47.1	44.4	38.3	33.9	33.1	37.5	36.8	42.1	490.7
1982 1/	43.6	40.6	45.6	44.4	45.5	44.7	41.5	35.0	37.4	40.9	39.5	43.0	501.6
1983	45.3	43.1	49.0	48.1	50.5	48.3	44.3	38.0	36.3	41.4	40.6	44.3	529.2

1/ Monthly totals in 1982 derived, consistent with previously published quarterly estimates.

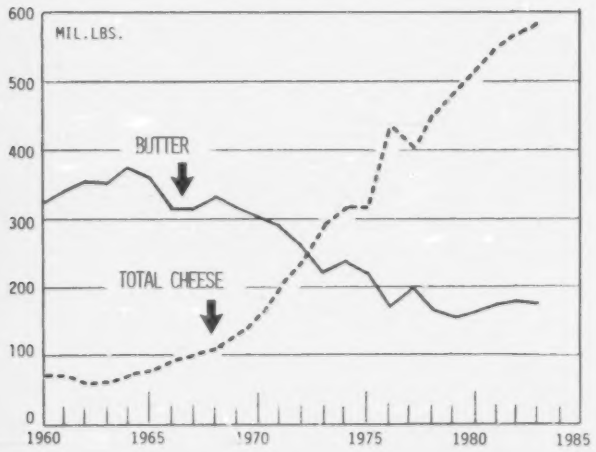
Charting MINNESOTA Agriculture

GRAPHIC GUIDE TO DAIRY PRODUCTION

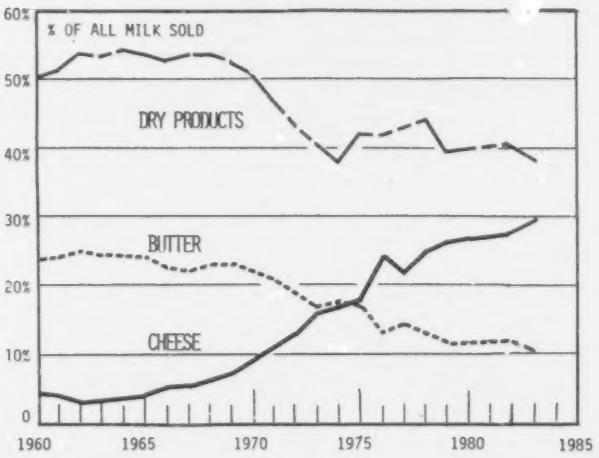
Minnesota Milk Production



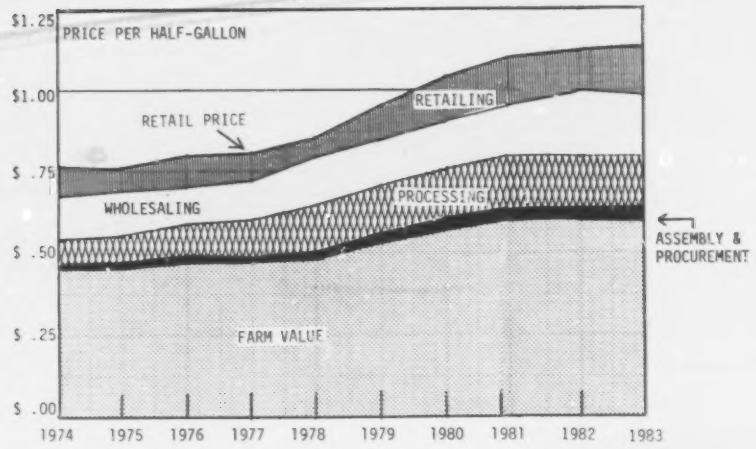
Minnesota Production of Butter & Total Cheese

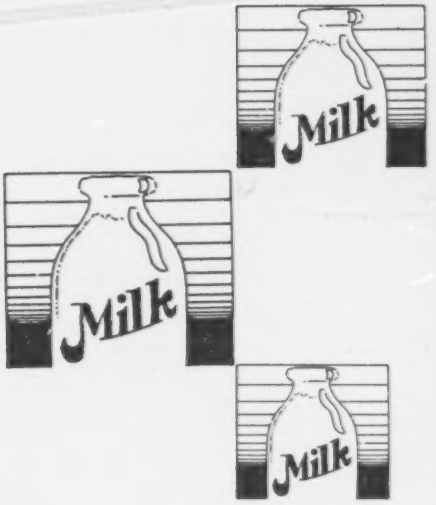


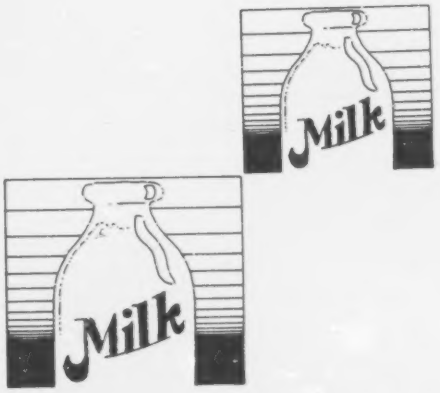
Minnesota Utilization of Milk Sold (Fat & Nonfat Solids Equiv.)



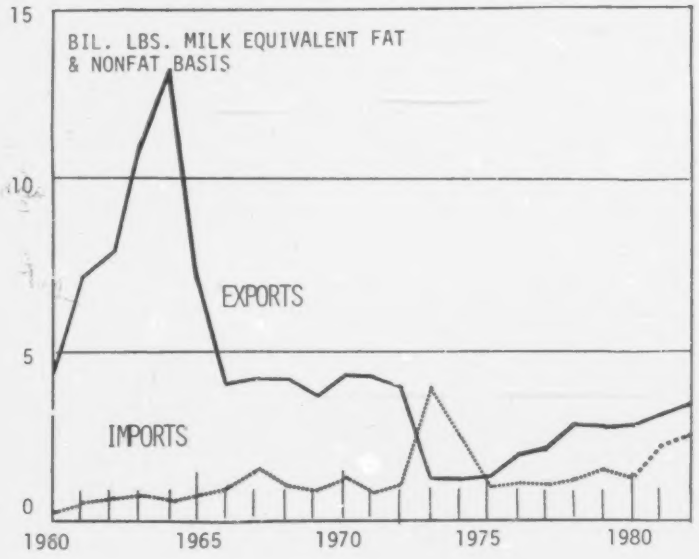
Here's What Happens To The Money You Spend On Fluid Milk



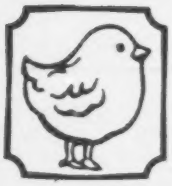


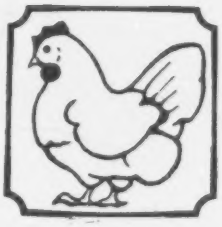


U.S. Dairy Imports & Exports



POULTRY





In 1983, Minnesota remained second in the nation in turkey production as 27.0 million turkeys (23.5 million heavy and 3.5 million light) were raised. North Carolina remained first in numbers raised with 28.7 million. On December 1, 1983, growers had 443,000 breeder hens on hand, down 15% from the previous year. Value of production from turkeys raised in Minnesota in 1983 was $158.3 million, down 8% from 1982. The average price received for turkeys in 1983 was 34.0 cents per pound liveweight, down 5 cents from the previous year.

During 1983, hatcheries in the West North Central Region (includes the states of Iowa, Kansas, Missouri, Nebraska, and Minnesota) placed 57.7 million turkey poults.

The state's egg production in 1983 was 2,508 million eggs, (the highest since 1972), an increase of 3% over 1982. The average number of layers on farms increased 1% to 10.2 million. Cash receipts from eggs increased 2% in 1983 to $101.9 million with the increase in the production even though the all egg price dropped 1% to 49.0 cents per dozen.

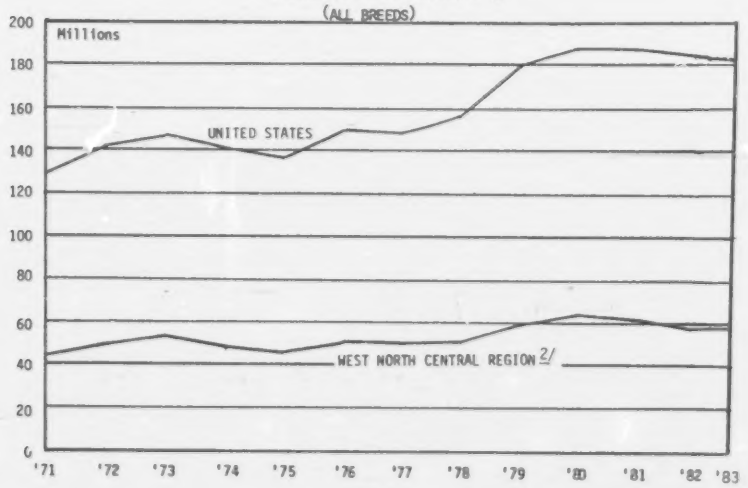
The total chicken inventory (excluding broilers) on December 1, 1983, increased 5% to 13.9 million. The number of chickens raised (excluding broilers) was 10.1 million in 1983. Cash receipts from all chickens were 2.8 million as price per pound increased 20% to 9.0 cents.

In 1983, the number of broilers raised increased 3% to 24.4 million. A 16% increase in gross income was the result of the increase in pounds produced and price per pound.

Hatchery production of egg-type chicks decreased 19% to 13.8 million in 1983.

These poultry estimates are based on survey data obtained from producers, hatcheries, and processing plants.

TURKEY POULTS HATCHED 1/
(ALL BREEDS)



1/ Starting in 1983, the number represents total placements, not total hatch. Placed number should not be used to measure change from previous years.

2/ Includes the states of Iowa, Kansas, Missouri, Nebraska, and Minnesota.

MINNESOTA POULTRY

Year	Chickens On Farms Dec. 1		Number Raised 1/		Eggs Produced 1/	Egg-type Chicks Hatched	Turkey Breeder Hens On Farms Dec. 1 2/	Turkeys Raised	Cash Receipts From Farm Sales		Gross Income From Turkeys
	All	Hens & Pullets of Laying Age	Chickens	Commercial Broilers					Chickens Including Broilers	Eggs	
	1,000		1,000		Millions		1,000		1,000 Dols.		1,000 Dols.
1979	12,500	9,500	10,061	17,000	2,183	27,826	633	24,666	24,038	88,945	165,756
1980	13,000	10,000	9,435	19,400	2,223	23,116	625	25,500	27,652	82,579	167,790
1981	13,600	10,600	8,700	21,500	2,355	14,773	567	25,700	32,268	101,400	152,658
1982	13,300	10,500	10,500	23,700	2,432	17,116	523	26,000	29,333	99,701	172,887
1983	13,900	10,600	10,050	24,400	2,508	13,843	443	27,000	33,710	101,879	158,263

1/ December previous year to November current year.
2/ Breeder hen inventories reflect the number producing eggs during the following season.

MINNESOTA MONTHLY POULTRY PRODUCTION

CHICKENS: LAYERS ON FARMS
(Millions)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual 1/
1979	9.4	9.2	9.0	9.1	9.0	8.9	8.8	8.7	9.0	9.2	9.3	9.2	9.1
1980	8.8	8.9	9.0	9.1	9.1	9.1	9.2	9.3	9.4	9.6	9.8	9.8	9.2
1981	9.6	9.6	9.6	9.7	9.7	9.7	9.8	9.9	10.1	10.3	10.5	10.6	9.9
1982 2/		10.5			9.9			9.9			10.3		10.1
1983	10.4	10.4	10.5	10.4	10.3	10.4	10.2	9.9	9.8	9.8	10.2	10.6	10.2
EGGS: AVERAGE NUMBER LAID PER LAYER PER MONTH													
1979	20.2	18.5	20.8	20.3	21.2	20.0	20.0	20.3	19.7	20.1	19.7	20.8	241
1980	20.9	19.1	20.6	20.0	20.4	19.6	20.0	20.3	19.9	20.3	20.0	21.2	242
1981	20.7	18.2	20.6	19.8	20.4	19.9	20.6	20.7	18.0	18.7	20.2	20.7	239
1982 3/		59.1			59.8			60.3			61.0		240
1983	21.1	19.1	21.0	20.0	20.1	19.8	21.2	21.2	20.2	20.5	20.1	21.1	245
EGGS: PRODUCTION ON FARMS 4/ (Million Eggs)													
1979	190	169	187	184	189	177	176	176	177	185	183	191	2,183
1980	184	170	185	181	186	178	183	188	187	194	196	208	2,223
1981	199	174	198	191	198	193	202	205	182	193	212	219	2,355
1982 5/		618			592			597			625		2,432
1983	218	198	220	208	207	206	217	210	198	201	206	223	2,508

1/ Annual data represents December previous year to November current year.
2/ Average number of layers during the quarters: Dec. 1982-Feb. 1983; March-May 1983; June-Aug. 1983; and Sept.-Nov. 1983
3/ Average number laid per layer per quarter.
4/ Based on unrounded number of layers and eggs per layer. 5/ Egg production for the quarter.

MINNESOTA MONTHLY POULTRY PRODUCTION (CONT'D)

CHICKENS: HATCHERY PRODUCTION
Egg-Type (1,000)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1979	2,161	2,176	2,352	2,672	3,233	2,667	2,323	2,261	1,897	1,803	2,063	2,218	27,826
1980	1,488	2,521	2,085	2,644	2,593	2,155	2,122	1,986	1,451	1,402	1,177	1,492	23,116
1981	1,156	1,100	1,145	1,769	1,766	1,910	974	916	759	919	1,017	1,342	14,773
1982	1,060	1,316	1,301	1,812	1,705	1,545	1,729	1,264	1,159	1,302	1,565	1,358	17,116
1983	880	996	1,054	1,335	1,498	1,409	1,026	1,366	1,165	907	1,007	1,200	13,843

CHICKENS: HATCHERY PRODUCTION
Broiler-Type (1,000)

1979	1,025	1,324	1,459	2,264	3,019	1,958	1,301	1,779	1,240	1,263	1,472	1,374	19,478
1980	1,332	1,798	1,792	2,588	3,123	2,029	1,458	1,706	1,372	1,285	1,708	1,451	21,642
1981	1,387	1,842	2,041	2,416	3,244	2,168	1,799	2,229	2,072	1,531	2,145	1,701	24,575
1982	1,770	2,156	2,256	2,623	3,302	2,336	1,864	2,401	1,759	1,622	2,302	1,814	26,205
1983 1/													

TURKEYS: HATCHERY PRODUCTION OF POULTS 2/
Heavy Breeds (1,000)

1979	3,815	4,779	6,672	7,017	7,335	6,348	4,932	2,798	1,718	1,873	1,982	2,690	51,959
1980	4,481	5,354	6,350	7,023	7,567	6,860	5,319	2,972	2,002	2,320	2,512	3,007	55,767
1981	4,223	5,128	5,995	6,788	7,682	7,083	5,432	2,957	1,728	2,459	2,489	2,795	54,759
1982 3/													
1983													

TURKEYS: HATCHERY PRODUCTION OF POULTS 2/
Light Breeds (1,000)

1979	305	483	551	642	726	732	672	590	558	614	620	708	7,201
1980	682	639	573	655	596	686	849	745	352	675	623	686	7,761
1981	704	574	570	564	597	668	587	432	79	N/A	251	535	5,561
1982 3/													
1983													

TURKEYS: HATCHERY PRODUCTION OF POULTS 2/
All Breeds (1,000)

1979	4,120	5,262	7,223	7,659	8,061	7,080	5,604	3,388	2,276	2,487	2,602	3,398	59,160
1980	5,163	5,993	6,923	7,678	8,163	7,546	6,168	3,717	2,354	2,995	3,135	3,693	63,528
1981	4,927	5,702	6,565	7,352	8,279	7,751	6,019	3,389	1,807	2,459	2,740	3,330	60,320
1982	3,525	4,749	6,144	7,713	7,197	7,487	7,208	4,289	1,839	2,499	2,879	3,276	58,805
1983 4/	3,653	4,658	6,818	7,216	7,487	7,630	6,455	3,524	1,814	2,755	2,748	2,977	57,735

1/ Not published to avoid disclosure of individual operations.
2/ Totals are for West North Central Region which includes Iowa, Kansas, Missouri, Nebraska, and Minnesota.
3/ Heavy and Light Breeds combined to avoid disclosure of individual operations.
4/ Placement Data (excludes exported poults). Placed estimates should not be used to measure change from previous years. Prior to 1983, data represents total hatch.

Go For QUALITY...

...Go For MINNESOTA GROWN

SECTION IV.

PRICES & CUSTOM RATES

These published prices represent the average received by farmers for all grades, weights, and classes. The tables provide a historical view of seasonal and monthly average prices. The season average price represents the average prices received by Minnesota farmers during the marketing year. To calculate the season average price, the monthly prices are weighted by estimated percentages of sales made each month during the marketing season.

CROP PRICES

The primary sources of the crop prices listed in the following tables are elevators and dealers which buy directly from farmers. The marketing year for different crops can be found in the footnotes following the tables.

The low monthly prices recorded in late 1982 and early 1983 were followed by much stronger prices as the sharp nation wide production drops in feed grains and oilseeds became increasingly evident during the growing season. The preliminary season average prices received for the 1983 corn, soybean, and sunflower crops were record high. Average prices for wheat and oats were the highest since 1980. Other crop prices were also up from the previous year.

MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR CROPS

CORN 1/
(Dollars per Bushel)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season Average Price
1979	1.88	1.93	1.97	2.06	2.19	2.31	2.43	2.25	2.24	2.10	1.90	2.03	2.26
1980	2.04	2.04	2.06	2.13	2.21	2.29	2.47	2.68	2.74	2.77	2.86	2.99	2.85
1981	3.04	2.96	3.04	3.09	3.08	3.03	2.98	2.68	2.41	2.24	2.19	2.15	2.33
1982	2.24	2.22	2.26	2.38	2.38	2.42	2.33	2.09	2.00	2.00	1.99	2.07	2.63
1983	2.12	2.34	2.54	2.73	2.84	2.85	2.93	3.14	3.19	2.99	2.99	2.97	3.10 4/

SOYBEANS 2/
(Dollars per Bushel)

1979	6.42	6.80	6.96	6.86	6.91	7.18	7.16	6.74	6.47	6.14	6.11	5.85	6.00
1980	5.87	5.83	5.41	5.41	5.53	5.80	6.46	6.95	7.24	7.33	8.05	7.44	7.23
1981	7.56	6.94	7.31	7.70	7.38	7.00	7.04	6.59	6.10	5.86	5.91	5.76	5.77
1982	5.79	5.67	5.73	5.99	6.12	5.98	5.80	5.45	5.13	5.13	5.12	5.18	5.81
1983	5.28	5.45	5.65	5.89	5.94	5.79	6.18	7.42	8.05	7.85	7.75	7.52	7.70 4/

SUNFLOWERS 2/
(Dollars Per Cwt.)

1979										10.00	9.74	9.89	9.59
1980	8.81	8.34	7.85	7.86	8.19	8.52	10.00	10.60	10.30	10.50	10.90	11.30	11.10
1981	11.00	10.80	10.70	11.20	12.10	12.00	11.20	11.80	10.70	10.60	10.70	11.40	11.00
1982	10.90	11.50	11.20	11.90	11.90	11.70	9.50	9.90	10.20	8.60	8.70	8.30	9.38
1983	8.10	8.30	8.50	9.40	9.10	9.50	9.50	13.10	14.10	13.50	14.20	13.80	13.20 4/

ALL WHEAT 3/
(Dollars per Bushel)

1979	2.84	2.86	2.88	2.97	3.25	3.64	3.92	3.81	3.71	3.88	3.82	3.64	3.71
1980	3.60	3.60	3.60	3.82	3.84	3.89	4.17	4.07	3.95	4.08	4.31	4.24	4.04
1981	4.28	4.38	4.25	4.25	4.20	4.07	3.97	3.76	3.79	3.84	3.80	3.76	3.72
1982	3.75	3.72	3.70	3.76	3.75	3.67	3.65	3.49	3.46	3.47	3.55	3.42	3.75
1983	3.41	3.41	3.63	3.81	3.91	3.91	3.94	3.83	3.79	3.82	3.83	3.80	3.89 4/

OATS 3/
(Dollars per Bushel)

1979	1.20	1.20	1.22	1.23	1.25	1.32	1.33	1.14	1.19	1.26	1.26	1.19	1.26
1980	1.33	1.24	1.24	1.35	1.38	1.40	1.45	1.39	1.57	1.67	1.82	1.83	1.70
1981	1.92	2.00	2.04	2.01	1.94	1.92	1.78	1.65	1.71	1.80	1.92	1.90	1.82
1982	1.97	1.97	1.94	1.98	1.89	1.86	1.61	1.25	1.23	1.20	1.30	1.41	1.36
1983	1.42	1.40	1.41	1.45	1.46	1.41	1.38	1.39	1.50	1.69	1.63	1.66	1.60 4/

1/ Marketing year, October through September.
2/ Marketing year, September through August.
3/ Marketing year, July through June.
4/ Preliminary 1983.
NOTE: Season average price includes allowance for loans outstanding and purchases by the government valued at the average loan and purchase rate. Monthly prices do not include this allowance.

MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR CROPS (CONT'D)

BARLEY 3/
(Dollars per Bushel)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Season Average Price
1979	1.87	1.85	1.92	2.04	2.16	2.21	2.28	2.12	2.32	2.29	2.37	2.24	2.15
1980	2.04	2.11	2.14	2.05	2.10	2.29	2.60	2.56	2.75	2.87	2.98	3.01	2.75
1981	2.88	3.09	3.01	3.11	2.94	2.60	2.27	2.15	2.39	2.19	2.23	2.20	2.21
1982	2.30	2.34	2.40	2.34	2.30	2.26	2.13	1.86	1.63	1.74	1.73	1.71	2.04
1983	1.74	1.78	1.86	2.04	2.13	2.07	2.01	2.22	2.38	2.46	2.41	2.43	2.40 4/

ALL HAY, BALED 1/
(Dollars per Ton)

1979	39.50	39.50	39.50	40.50	42.00	34.50	36.50	33.50	35.50	37.00	37.50	39.50	36.50
1980	36.50	37.00	36.00	36.00	40.50	50.00	46.00	57.00	63.00	60.00	63.00	58.00	56.00
1981	61.00	58.00	53.00	57.00	57.00	63.00	59.00	62.00	64.00	66.00	69.00	66.00	68.00
1982	72.00	82.00	75.00	72.00	75.00	65.00	56.00	61.00	57.00	62.00	70.00	74.00	67.50
1983	74.00	71.00	70.00	74.00	77.00	63.00	60.00	65.00	66.00	66.00	75.00	69.00	67.00 4/

ALFALFA HAY, BALED 1/
(Dollars per Ton)

1979	42.00	42.00	42.00	43.00	44.50	36.00	37.00	34.50	36.50	38.50	40.50	40.50	2/
1980	38.00	39.00	37.00	38.00	41.50	52.00	47.00	59.00	68.00	62.00	68.00	62.00	2/
1981	64.00	60.00	54.00	60.00	58.00	65.00	63.00	66.00	71.00	70.00	74.00	87.00	2/
1982	76.00	85.00	80.00	74.00	80.00	70.00	58.00	64.00	60.00	66.00	77.00	80.00	2/
1983	80.00	76.00	75.00	80.00	81.00	68.00	63.00	69.00	70.00	70.00	80.00	75.00	2/

ALL OTHER HAY, BALED 1/
(Dollars per Ton)

1979	30.00	31.00	30.00	31.50	32.00	26.00	31.50	28.00	27.00	27.50	28.00	31.50	2/
1980	30.00	28.00	29.00	26.00	32.00	30.00	34.00	50.00	44.00	54.00	46.00	45.00	2/
1981	53.00	51.00	48.00	48.00	52.00	54.00	44.00	45.00	45.00	56.00	53.00	70.00	2/
1982	57.00	70.00	58.00	62.00	51.00	45.00	48.00	47.00	44.00	45.00	53.00	55.00	2/
1983	48.00	49.00	53.00	55.00	57.00	45.00	49.00	44.00	49.00	52.00	59.00	52.00	2/

FLAXSEED 3/
(Dollars per Bushel)

1979	5.80	6.03	6.77	7.00	6.89	7.24	6.82	6.52	6.42	5.54	5.57	5.57	6.02
1980	5.39	5.83	5.94	5.40	5.94	6.07	6.80	7.10	7.13	6.88	7.14	7.56	7.18
1981	7.40	7.39	7.33	7.56	7.68	7.74	5/	7.18	6.40	6.33	6.61	7.18	6.88
1982	6.85	7.06	6.89	6.81	6.74	6.88	6.46	5.30	5.14	5.26	4.92	4.76	5.20
1983	4.77	4.55	4.70	4.70	4.38	5.10	5.03	6.40	6.94	7.37	6.58	6.47	6.70 4/

POTATOES
(Dollars per Cwt.)

1979	2.93	2.81	2.70	2.75	3.00	3.00	5.00	3.53	2.78	2.82	2.65	2.84	3.11
1980	3.50	3.30	3.15	3.00	3.30	3.50	3.60	9.90	6.95	4.90	4.90	6.55	8.00
1981	7.80	8.10	9.50	10.70	10.70	5/	9.20	7.15	6.20	4.90	4.60	4.80	4.90
1982	4.50	4.10	4.50	4.40	3.70	3.50	4.75	5.20	3.60	3.45	3.60	4.00	3.95
1983	3.80	3.90	3.80	4.60	4.50	3.80	4.65	8.30	5.15	3.70	5.30	4.60	4.95 4/

1/ Marketing year, June through May. 2/ Not available. 3/ Marketing year, July through June. 4/ Preliminary 1983. 5/ Volume of sales too small to make a price estimate. NOTE: Season average price includes allowance for loans outstanding and purchases by the government valued at the average loan and purchase rate. Monthly prices do not include this allowance.

LIVESTOCK PRICES

The livestock and dairy price statistics included in these tables are based on reports from farmers, auction markets, livestock buyers, meat and poultry processing plants, the South St. Paul market, produce houses, egg handlers and dealers, marketing cooperatives, dairy plants, and other firms doing business with farmers.

The marketing year for livestock, dairy and poultry items is a calendar year, except for hogs, chickens, and eggs, which are on a December-November basis.

The 1983 annual average price for hogs declined 11% from 1982. Prices for sheep were 7% lower, beef cattle declined 2% and calves were down 1%. Wool prices were down 19%. The 1983 annual average price for lambs increased 2% from 1982. Table market eggs were 1% lower.

The 1983 annual average price for all milk was 4 cents lower than a year earlier. Manufacturing grade milk was down 4 cents and grade A milk was down 5 cents.

MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR LIVESTOCK

BEEF CATTLE 1/
(Dollars Per Cwt.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price
1979	54.30	57.60	60.40	65.00	64.50	63.00	60.10	56.50	58.50	55.90	55.40	56.00	58.90
1980	56.10	60.20	57.60	54.10	54.20	55.60	55.40	57.40	58.40	55.20	53.10	51.50	55.70
1981	51.40	52.20	51.80	51.80	53.00	54.50	52.30	51.80	53.80	47.80	47.10	43.50	50.80
1982	43.60	47.40	49.10	52.40	54.80	54.40	50.50	50.70	48.10	46.80	43.10	43.20	48.60
1983	46.20	48.40	50.70	51.40	53.40	51.70	48.40	47.10	45.60	42.90	43.50	42.60	47.60
	STEERS AND HEIFERS (Dollars Per Cwt.)												
1979	58.30	62.20	67.00	72.00	70.20	67.20	64.30	60.20	63.00	61.90	62.50	62.60	64.20
1980	62.20	65.20	62.60	58.40	58.30	60.40	62.60	64.50	64.40	61.40	60.70	59.50	61.70
1981	57.40	58.10	56.90	57.00	58.30	59.70	58.10	57.10	59.20	54.50	54.10	52.00	57.00
1982	51.80	55.10	57.10	59.10	61.20	60.50	57.30	57.80	54.60	53.30	50.20	50.40	55.90
1983	52.20	54.90	57.50	58.50	58.30	56.60	54.00	52.50	51.40	49.80	50.50	52.50	54.10
	COWS 2/ (Dollars Per Cwt.)												
1979	48.70	51.90	53.20	55.10	57.20	51.20	50.30	48.80	49.60	47.00	45.80	47.60	50.70
1980	48.40	50.40	48.20	46.60	43.00	45.20	44.50	46.40	47.00	45.80	43.40	41.50	45.80
1981	42.90	44.10	43.60	44.30	43.30	43.20	43.00	43.80	41.90	38.50	36.60	34.90	41.40
1982	35.80	37.70	39.80	40.90	42.70	42.60	41.00	40.10	39.60	38.30	35.00	34.50	38.70
1983	36.20	39.90	41.60	41.80	43.10	41.90	40.50	38.10	36.80	35.40	32.80	32.40	37.90
	CALVES (Dollars Per Cwt.)												
1979	71.50	79.20	87.20	91.30	95.40	86.40	83.20	78.30	90.00	80.00	77.00	75.30	81.90
1980	84.70	91.30	77.50	75.70	72.20	78.40	79.10	80.50	79.50	72.70	71.50	69.20	78.30
1981	72.00	70.60	70.30	75.00	71.70	74.60	70.40	71.20	68.90	61.00	58.70	57.80	67.40
1982	54.60	54.40	61.00	61.90	64.60	71.60	66.90	67.00	64.40	58.60	53.60	52.90	60.30
1983	59.00	63.50	66.90	64.10	64.00	68.50	63.10	58.30	55.70	52.20	53.90	53.50	59.70

1/ "Cows" and "Steers and Heifers" combined.
2/ Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.

MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR LIVESTOCK (CONT'D)

HOGS 1/
(Dollars per Cwt.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price
1979	51.10	53.30	50.00	44.30	43.90	39.00	37.10	34.80	36.50	33.10	33.80	37.00	42.00
1980	36.60	37.00	33.90	28.50	28.70	32.60	41.50	46.60	46.30	47.50	45.70	43.80	38.30
1981	40.70	41.40	38.90	39.00	40.10	47.50	49.50	49.30	48.90	45.00	40.30	38.40	43.60
1982	43.10	48.20	49.10	51.60	57.40	57.90	58.80	62.00	61.80	56.00	52.60	53.40	52.60
1983	55.60	56.30	50.30	47.50	46.30	44.00	43.60	47.50	44.60	42.00	37.60	45.00	46.90

SHEEP
(Dollars per Cwt.)

1979	27.50	28.90	29.00	28.20	26.00	25.00	23.10	22.90	23.70	21.50	20.40	26.50	24.60
1980	22.60	21.50	21.50	19.50	16.80	15.40	16.30	14.80	15.30	16.10	15.40	19.30	17.00
1981	19.30	20.40	21.20	19.10	14.70	14.50	18.60	18.00	15.30	13.40	13.90	15.20	16.40
1982	17.50	16.90	17.10	16.60	14.20	15.10	17.10	16.40	13.40	12.90	12.60	13.80	15.10
1983	18.40	19.50	18.00	14.10	12.70	11.20	15.10	14.00	11.40	11.40	12.10	14.10	14.10

LAMBS
(Dollars per Cwt.)

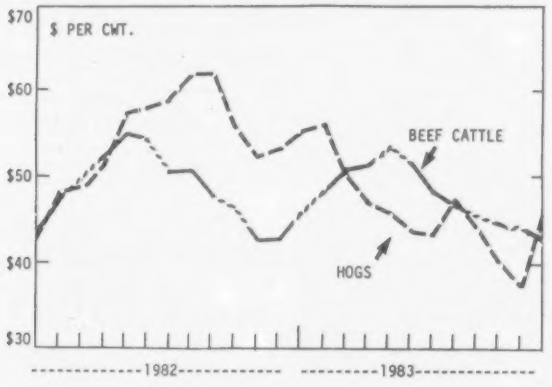
1979	78.20	73.50	64.50	69.70	71.30	66.70	63.30	60.00	65.70	64.00	65.40	67.30	66.90
1980	66.10	64.20	66.70	59.80	61.30	65.40	67.20	65.80	66.80	63.60	57.70	55.90	63.20
1981	51.30	53.10	55.30	58.80	63.80	66.40	60.00	55.60	52.40	52.30	48.90	45.10	52.90
1982	51.00	54.70	60.50	63.10	66.60	59.00	57.50	53.50	52.40	49.50	48.30	50.00	54.70
1983	55.60	59.80	62.80	60.60	62.40	53.40	51.60	49.20	49.80	53.20	55.70	59.20	56.00

WOOL
(Cents per Pound)

1979	69	70	71	72	73	70	66	67	68	68	74	71	71
1980	73	76	79	75	67	67	66	66	67	68	71	72	73
1981	72	73	71	67	68	71	67	68	69	70	64	64	70
1982	56	55	53	50	43	41	41	42	39	50	38	41	48
1983	39	44	37	35	35	37	37	37	39	39	43	46	39

1/ Annual average price is the marketing year average--December previous year through November current year.

MINN. MONTHLY HOG & BEEF CATTLE PRICES



MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR MILK COWS & DAIRY PRODUCTS

MILK COWS 1/
(Dollars per Head)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price
1979	860	920	965	995	1,010	980	975	995	1,030	1,020	1,030	1,050	985
1980	1,100	1,120	1,120	1,150	1,170	1,170	1,150	1,150	1,170	1,180	1,200	1,180	1,160
1981	1,200	1,190	1,190	1,190	1,180	1,180	1,180	1,190	1,180	1,170	1,160	1,130	1,180
1982 2/	1,120	--	--	1,090	--	--	1,090	--	--	1,050	--	--	1,090
1983	1,000	--	--	1,020	--	--	1,040	--	--	930	--	--	1,000

ALL MILK
(Dollars per Cwt.)

1979	11.07	10.97	11.00	11.06	11.07	11.01	11.09	11.40	11.71	11.93	12.01	11.98	11.32
1980	11.98	11.95	12.07	12.10	12.04	12.02	12.00	12.21	12.65	13.20	13.36	13.42	12.40
1981	13.33	13.25	13.12	13.08	12.97	12.85	12.80	12.82	13.00	13.27	13.28	13.23	13.08
1982	13.20	13.07	12.99	12.96	12.83	12.75	12.70	12.70	12.98	13.22	13.26	13.23	12.98
1983	13.17	13.08	13.00	12.97	12.87	12.73	12.64	12.60	12.89	13.19	13.29	12.91	12.94

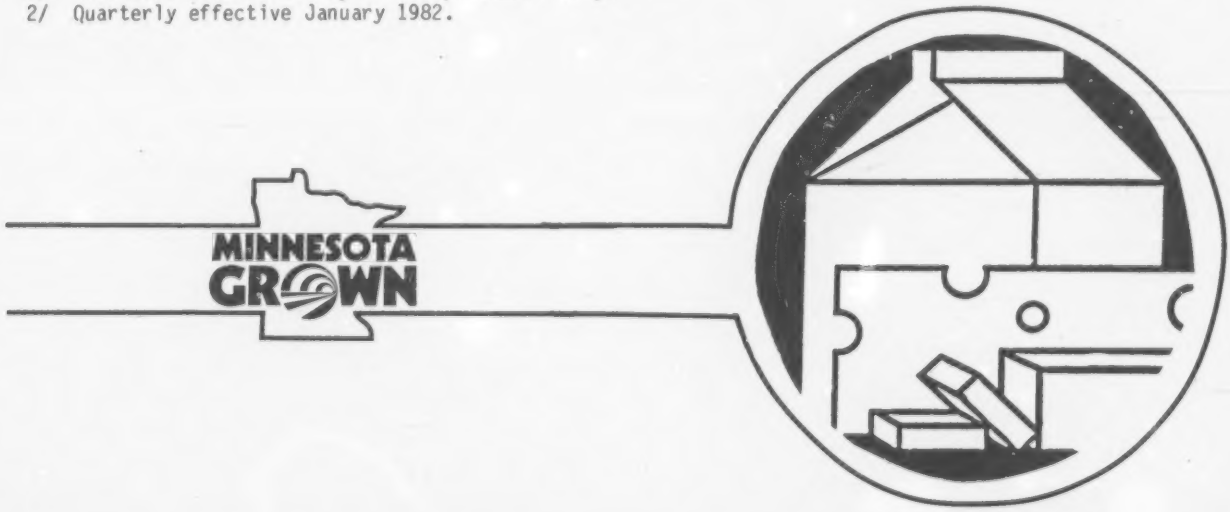
FLUID MARKET MILK
(Dollars per Cwt.)

1979	11.44	11.35	11.38	11.41	11.42	11.37	11.49	11.71	12.02	12.23	12.35	12.32	11.69
1980	12.31	12.30	12.42	12.42	12.34	12.30	12.27	12.48	12.93	13.51	13.65	13.71	12.71
1981	13.63	13.57	13.39	13.37	13.25	13.11	13.06	13.06	13.22	13.49	13.50	13.47	13.34
1982	13.44	13.30	13.21	13.18	13.04	12.96	12.89	12.90	13.16	13.40	13.45	13.44	13.20
1983	13.36	13.29	13.22	13.17	13.06	12.93	12.84	12.80	13.10	13.42	13.48	13.17	13.15

MANUFACTURING GRADE MILK
(Dollars per Cwt.)

1979	10.67	10.55	10.60	10.69	10.70	10.64	10.68	11.06	11.35	11.54	11.58	11.55	10.92
1980	11.52	11.49	11.60	11.70	11.65	11.66	11.65	11.83	12.26	12.73	12.92	12.98	11.96
1981	12.88	12.80	12.74	12.67	12.59	12.48	12.43	12.45	12.65	12.91	12.91	12.85	12.69
1982	12.79	12.69	12.62	12.60	12.51	12.42	12.39	12.37	12.66	12.91	12.92	12.87	12.63
1983	12.79	12.72	12.64	12.64	12.58	12.42	12.32	12.27	12.54	12.79	12.94	12.46	12.59

1/ Milk cows sold for dairy herd replacement only.
2/ Quarterly effective January 1982.



MINNESOTA MONTHLY PRICES RECEIVED BY FARMERS FOR POULTRY

TURKEYS
(Cents Per Pound)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price
1979	47.0	44.0	42.0	43.0	40.0	37.0	36.0	37.0	37.0	38.0	45.0	46.0	40.0
1980	37.0	35.0	34.0	32.0	31.0	31.0	38.0	40.0	44.0	47.0	48.0	42.0	40.0
1981	36.0	35.0	38.0	36.0	39.0	39.0	40.0	38.0	36.0	31.0	34.0	31.0	36.0
1982	33.0	34.0	34.0	35.0	36.0	38.0	40.0	40.0	41.0	42.0	42.0	30.0	39.0
1983	31.0	31.0	32.0	31.0	32.0	35.0	32.0	31.0	35.0	35.0	35.0	43.0	34.0

ALL EGGS 1/
(Cents Per Dozen)

1979	51.8	49.8	55.3	52.7	50.4	47.2	45.4	44.3	47.6	43.1	48.2	53.6	49.3
1980	47.8	38.5	44.4	43.2	35.3	37.6	38.9	47.3	49.1	46.7	54.8	65.9	44.9
1981	53.9	49.8	49.1	52.0	42.5	46.0	47.0	48.3	53.5	54.9	59.7	49.6 2/	52.0
1982 2/	50.5	53.5	54.7	51.4	43.3	42.3	43.6	38.9	44.7	46.3	48.7	40.6	47.5
1983	40.0	41.0	44.0	43.0	48.0	46.0	42.0	49.0	52.0	58.0	63.0	72.0	47.0

1/ Marketing year average-December previous year through November current year.
2/ Effective December 1981, table market eggs are published instead of "all" eggs. Table market eggs include eggs sold retail by the producer and exclude hatching eggs.

MINNESOTA MONTHLY PRICES PAID BY FARMERS FOR SELECTED COMMODITIES

BRAN
(Dollars per Cwt.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price 1/
1979	7.90	8.10	8.30	8.40	8.20	8.00	8.40	8.10	8.10	8.40	8.40	8.40	8.23
1980	8.40	8.30	8.30	8.20	8.10	8.00	8.10	8.10	8.20	8.50	9.00	9.40	8.38
1981	9.10	9.20	9.30	9.10	9.20	9.20	9.00	8.90	8.70	8.70	8.80	8.60	8.98
1982	8.90	8.80	8.50	8.60	8.70	8.70	8.70	8.70	8.70	8.50	8.40	8.40	8.63
1983	8.60	8.60	8.60	8.60	8.70	8.70	8.70	8.80	8.90	8.60	8.90	9.30	8.75

MIDDLINGS
(Dollars per Cwt.)

1979	7.80	7.90	8.10	8.30	7.90	7.90	8.30	8.00	7.90	8.30	8.30	8.10	8.07
1980	8.20	8.10	8.20	8.00	7.70	7.80	7.40	8.00	8.00	8.10	8.80	8.90	8.10
1981	8.80	8.80	8.70	8.80	8.90	9.10	8.90	8.60	8.40	8.60	8.50	8.40	8.71
1982	8.70	8.40	8.50	8.90	9.10	8.80	8.80	8.80	8.50	8.40	8.10	8.40	8.62
1983	8.40	8.40	8.20	8.60	8.50	8.90	8.70	8.50	8.80	8.60	8.90	8.90	8.62

SOYBEAN MEAL, 44%
(Dollars per Cwt.)

1979	11.70	11.90	12.00	12.10	12.10	12.60	13.50	12.40	12.10	12.10	11.60	12.00	12.18
1980	11.60	11.60	11.50	10.50	11.00	11.00	12.00	13.00	13.50	14.50	16.00	15.00	12.60
1981	14.50	13.70	13.00	13.50	13.50	13.50	13.00	13.00	12.50	12.00	11.50	12.00	12.98
1982	12.50	12.10	11.80	11.90	12.00	12.10	12.00	11.50	11.00	11.00	11.00	11.50	11.70
1983	11.50	11.30	11.50	12.00	12.50	12.00	12.00	14.00	15.00	14.00	14.50	14.00	12.8[illegible]

BEEF CATTLE CONCENTRATE, 32%-36%
(Dollars per Cwt.)

1979	10.30	10.50	10.70	10.20	10.10	10.60	11.30	10.70	10.80	11.30	10.90	1[illegible].50	10.74
1980	11.00	10.90	10.80	10.50	10.50	10.50	11.00	12.00	12.00	12.50	13.50	13.00	11.52
1981	13.00	12.20	12.00	12.50	12.50	12.50	12.00	12.00	12.00	11.50	11.50	12.50	12.18
1982	12.00	12.00	11.50	12.00	12.00	12.50	12.00	12.00	11.50	12.00	11.50	11.50	11.88
1983	12.00	12.00	12.00	12.00	12.50	12.00	12.50	13.00	13.50	13.00	13.50	13.50	12.63

HOG CONCENTRATE, 38%-42%
(Dollars per Cwt.)

1979	13.70	14.00	14.40	14.40	14.20	14.60	15.60	14.30	14.20	14.50	14.10	14.50	14.38
1980	14.00	14.30	14.30	13.50	14.00	13.40	14.60	15.60	16.30	17.00	18.50	17.60	15.26
1981	17.00	15.90	15.50	16.00	16.50	16.00	16.10	16.10	15.40	15.30	14.90	15.20	15.83
1982	14.90	14.90	14.70	14.90	15.00	15.00	15.00	14.10	14.10	13.80	14.10	14.40	14.58
1983	14.60	14.80	14.70	15.30	15.30	14.90	14.70	16.50	17.10	16.30	17.00	16.60	15.65

1/ Annual average prices are straight rather than weighted averages.

MINNESOTA MONTHLY PRICES PAID BY FARMERS FOR SELECTED COMMODITIES

DAIRY FEED, 16%
(Dollars Per Ton)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price 1/
1979	132	138	137	137	139	144	158	144	147	150	147	154	144
1980	151	146	148	147	154	151	157	169	174	177	188	190	163
1981	198	180	173	178	185	182	177	174	168	167	162	166	176
1982	163	161	164	168	170	165	164	163	155	153	158	160	162
1983	157	161	161	169	171	175	168	181	182	186	193	188	174

DAIRY FEED, 32%
(Dollars Per Ton)

1979	215	220	230	225	220	230	245	230	230	245	230	240	230
1980	230	235	235	225	235	235	245	275	275	280	305	300	256
1981	300	275	280	280	290	280	270	275	270	265	265	255	275
1982	265	255	250	270	270	270	255	255	265	250	255	260	260
1983	260	255	255	265	270	270	270	285	305	300	310	295	278

LAYING FEED
(Dollars Per Ton)

1979	167	169	170	173	175	178	186	176	177	178	183	192	177
1980	185	172	171	173	181	182	185	193	210	192	200	215	188
1981	215	205	220	215	220	220	205	198	210	200	196	210	210
1982	194	194	200	200	205	205	200	200	188	185	190	200	197
1983	200	200	196	210	210	215	205	210	220	220	225	220	211

CHICK STARTER
(Dollars Per Ton)

1979	197	200	205	200	200	205	225	210	210	215	210	215	208
1980	210	205	210	205	210	210	220	230	240	240	250	260	224
1981	260	245	240	245	255	245	245	240	235	230	225	230	241
1982	225	225	220	225	230	230	225	220	215	210	210	230	222
1983	220	225	225	240	245	245	240	255	265	255	255	255	244

BROILER GROWER
(Dollars Per Ton)

1979	161	163	159	168	173	172	193	169	175	180	179	185	173
1980	180	168	177	181	185	182	191	205	205	220	240	245	198
1981	235	230	220	230	235	235	245	225	235	220	210	220	228
1982	205	205	205	205	215	205	210	197	182	191	195	205	202
1983	189	198	210	230	215	220	215	235	240	245	250	240	224

1/ Annual average prices are straight rather than weighted averages.

MINNESOTA MONTHLY PRICES PAID BY FARMERS FOR SELECTED COMMODITIES

CORN MEAL
(Dollars Per Cwt.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average Price 1/
1979	4.75	4.75	4.80	4.95	5.00	5.30	5.70	5.40	5.40	5.40	5.30	5.50	5.19
1980	5.30	5.30	5.40	5.20	5.50	5.40	5.90	6.00	6.10	5.80	6.30	5.90	5.68
1981	6.30	6.20	6.10	6.30	6.50	6.50	6.60	6.20	6.10	5.80	5.80	5.00	6.12
1982	5.30	4.80	5.00	5.30	5.30	5.60	5.70	5.10	5.10	4.85	4.90	4.90	5.15
1983	5.10	5.30	5.40	6.30	6.20	6.20	6.30	6.90	6.80	6.90	6.60	6.50	6.21

GASOLINE (SERVICE STATION), UNLEADED REGULAR
(Dollars Per Gallon)

1979	.700	.720	.740	.790	.830	.880	.930	.990	1.01	1.03	1.05	1.07	.890
1980	1.11	1.17	1.23	1.26	1.29	1.29	1.28	1.28	1.27	1.26	1.26	1.27	1.250
1981	1.29	1.38	1.42	1.41	1.40	1.40	1.38	1.39	1.38	1.38	1.38	1.38	1.380
1982	1.36	1.36	1.31	1.25	1.27	1.36	1.38	1.37	1.36	1.35	1.35	1.32	1.340
1983	1.27	1.21	1.18	1.25	1.32	1.33	1.33	1.34	1.33	1.31	1.31	1.29	1.290

LEADED REGULAR GASOLINE, BULK DELIVERY
(Dollars Per Gallon)

1979	.650	.670	.690	.730	.760	.820	.860	.920	.940	.960	.980	1.00	.830
1980	1.04	1.10	1.16	1.19	1.22	1.23	1.21	1.21	1.19	1.19	1.20	1.22	1.180
1981	1.24	1.31	1.35	1.34	1.32	1.33	1.32	1.33	1.31	1.31	1.32	1.32	1.320
1982	1.29	1.30	1.25	1.19	1.21	1.30	1.31	1.30	1.31	1.30	1.29	1.26	1.280
1983	1.21	1.16	1.12	1.20	1.26	1.29	1.25	1.27	1.25	1.26	1.22	1.22	1.230

DIESEL FUEL
(Dollars Per Gallon)

1979	.500	.510	.540	.600	.630	.690	.730	.800	.840	.850	.870	.890	.700
1980	.920	.950	.980	.990	1.02	1.02	1.01	.990	1.00	.980	1.01	1.03	.990
1981	1.05	1.16	1.19	1.19	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.160
1982	1.15	1.16	1.10	1.04	1.07	1.15	1.15	1.13	1.12	1.14	1.16	1.13	1.130
1983	1.08	1.01	.950	.940	.970	.980	.980	1.00	1.02	1.01	1.02	1.01	1.000

LP GAS
(Dollars Per Gallon)

1979	.400	.400	.390	.390	.390	.410	.440	.450	.470	.490	.520	.550	.440
1980	.570	.600	.620	.610	.600	.610	.610	.610	.620	.610	.620	.660	.610
1981	.670	.680	.690	.700	.690	.690	.710	.700	.680	.690	.690	.690	.690
1982	.720	.710	.680	.670	.660	.670	.670	.670	.740	.760	.810	.800	.710
1983	.780	.780	.770	.770	.800	.800	.810	.810	.800	.800	.790	.780	.790

1/ Annual average prices are straight rather than weighted averages.

MINNESOTA FARM PRODUCTION EXPENSES

Commodity	Total Cash Receipts		Receipts Less Expenses	
	1981	1982	1981	1982
	Dollars Per Planted Acre			
CORN:				
Lake States & Corn Belt	202.54	208.76	66.12	43.29
United States	204.25	209.79	55.92	35.72
SOYBEANS:				
Lake States & Corn Belt	107.45	111.47	101.06	72.30
United States	105.88	106.91	73.75	56.70
BARLEY:				
Northern Plains (Incl. Minnesota)	80.13	81.57	23.57	12.61
United States	98.05	101.26	26.56	19.96
OATS:				
Lakes States & Corn Belt	89.46	92.82	47.24	21.68
United States	77.15	78.24	44.22	25.46
WHEAT:				
U.S. Hard Red Winter	75.12	76.13	24.72	28.93
U.S. Soft Red Winter	108.90	104.87	52.14	26.80
U.S. Hard Red Spring 1/	75.51	78.28	29.72	31.42
U.S. Durum	70.57	71.73	27.02	24.51
SUNFLOWERS:				
United States 2/	80.81	82.91	38.65	16.32
FLAX:				
United States 2/	52.64	53.75	26.99	18.47
FALL POTATOES:				
Red River Valley	511.83	439.35	62.77	89.40
United States	812.23	770.46	155.48	157.91
SUGARBEETS:				
Minnesota/North Dakota	299.89	315.59	47.64	290.72
United States	487.57	488.70	161.73	230.75
	Dollars Per Cwt.			
MILK PRODUCTION:				
Upper Midwest	8.99	9.02	5.86	5.57
United States	9.70	9.61	5.24	5.05
FEEDER PIG PRODUCTION:				
North Central	75.16	71.23	- 5.82	22.98
United States	68.02	74.65	- 9.89	- 6.16
FEEDER PIG FINISHING PRODUCTION:				
North Central	46.45	48.64	- 2.69	5.76
United States	46.74	49.32	- 2.88	5.21
FARROW-TO-FINISH PRODUCTION:				
North Central	44.46	41.11	- 0.65	13.27
United States	44.86	41.46	- 0.99	13.01
FED CATTLE PRODUCTION:				
U.S., Farmer Feedlots	68.24	60.36	- 5.00	3.21
U.S., Commercial Feedlots	68.82	53.06	- 5.35	0.58
SHEEP PRODUCTION:				
United States	40.18	41.29	5.52	5.91
	Dollars Per Cow			
COW-CALF PRODUCTION:				
North Central	248.86	251.42	26.76	5.55
United States	251.25	255.12	9.39	0.37

NOTE: Quantities of inputs are variable from year to year.
1/ Idaho, Montana, North and South Dakota, Minnesota.
2/ For major states: North and South Dakota, Minnesota.

Detailed input costs are available in 2 publications from this office:
COSTS OF 1982 CROP PRODUCTION, UNITED STATES AND MINNESOTA REGION
COSTS OF 1982 LIVESTOCK AND DAIRY PRODUCTION, UNITED STATES AND MINNESOTA REGION.

CUSTOM RATES

The suggested custom rates provided by the University of Minnesota's Ag Extension Service in the following table have been calculated by formula from the most recent farm machinery, energy, and labor prices available. Estimated custom rates can provide reasonable estimates as a base for determining a negotiated rate between a purchaser and a supplier of custom services.

Custom rates will vary from area to area and are always a function of the demand and the supply of those custom services. A more complete listing of machinery may be obtained from 1984 CUSTOM RATE ESTIMATES FOR MINNESOTA, AG-FO-2309; University of Minnesota Ag Extension Service, St. Paul, MN 55108.

MINNESOTA CUSTOM RATES
1984*

Item	Tractor HP	Cash Operating Costs 1/		Total Costs 2/		Suggested Custom Rates 3/	
		Per Hour	Per Acre	Per Hour	Per Acre	Per Hour	Per Acre
		---Dollars---					
TILLAGE EQUIPMENT:							
MB Plow 3-16	60	6.28	3.60	21.53	12.34	25.52	14.62
MB Plow 4-16	75	9.76	4.20	34.44	14.81	40.44	17.39
MB Plow 6-16	120	15.34	4.39	47.88	13.72	55.96	16.03
MB Plow 8-16	160	21.18	4.55	62.73	13.49	73.57	15.82
MB Plow 10-18	225	28.45	4.35	84.27	12.88	99.23	15.16
MB Plow 12-18	275	33.50	4.27	96.25	12.25	114.90	14.63
Chisel Plow 15 Ft	120	12.81	1.96	40.45	6.18	47.87	7.31
Chisel Plow 20 Ft	160	17.24	1.98	50.99	5.84	59.95	6.87
Chisel Plow Wing 29	250	25.91	2.05	80.84	6.39	95.35	7.54
Chisel Plow Wing 35	300	30.46	1.99	92.30	6.04	109.49	7.17
Field Cultivator 12	75	7.83	1.29	26.53	4.38	31.67	5.23
Field Cultivator 28	160	18.35	1.35	52.72	3.88	63.06	4.64
Field Cultivator 37	225	23.75	1.32	66.97	3.73	79.95	4.46
Disk 10 Ft	60	7.00	1.44	26.80	5.53	32.16	6.63
Disk 20 Ft	100	14.11	1.46	53.26	5.49	63.90	6.59
Disk 24 Ft	120	17.17	1.48	63.61	5.47	76.15	6.54
Disk 32 Ft	160	22.77	1.47	79.89	5.15	95.63	6.16
Disk 40 Ft	180	27.54	1.42	99.56	5.13	117.67	6.07
Disk Offset 14 Ft	140	16.63	2.72	55.09	9.02	66.14	10.83
Disk Offset 18 Ft	180	20.61	2.62	62.82	8.00	75.25	9.58
Disk-Wing Offset 23	225	25.47	2.54	85.39	8.51	102.26	10.19
Landplane 45-12 Ft	180	17.69	2.76	61.80	9.66	74.16	11.59
Landplane 55-14 Ft	225	21.56	2.69	93.13	11.64	111.75	13.97
Springtooth Drag 30	60	6.12	.38	36.68	2.29	44.01	2.75
Springtooth Drag 48	75	7.88	.26	44.78	1.48	53.71	1.78
PLANTING EQUIPMENT:							
Corn Planter 4-36	40	9.87	2.15	46.03	10.05	52.95	11.56
Corn Planter 6-30	60	14.02	2.45	60.53	10.57	69.31	12.10
Corn Planter 8-30	75	19.86	2.60	83.77	10.97	96.63	12.65
Min-Till Planter 4-36	60	12.72	3.57	54.64	15.33	62.60	17.57
Min-Till Planter 6-30	75	17.03	3.82	71.13	15.97	80.60	18.09
Min-Till Planter 8-30	100	24.04	4.05	96.28	16.21	110.91	18.67
Min-Till Planter 8-36	100	24.92	3.50	100.13	14.05	114.18	16.02
Min-Till Planter 12-3	160	36.84	4.13	138.19	15.51	155.83	17.49
Potato Planter 4 Row	120	21.17	5.53	96.97	25.32	108.44	28.31
Beet Planter 12 Row	100	22.26	4.77	99.10	21.24	118.92	25.48
Grain Drill Pw 14 Ft	40	9.50	1.70	40.29	7.23	46.04	8.26
Grain Drill Pw 20 Ft	75	15.77	1.98	60.00	7.53	69.11	8.68
Grain Drill Pw 28 Ft	100	21.35	1.91	77.74	6.97	90.70	8.14
MISCELLANEOUS EQUIPMENT:							
Light Truck	---	9.07	5.99	19.31	12.74	22.29	14.71
Medium Truck	---	16.50	10.89	32.01	21.13	36.68	24.21
Heavy Truck	---	26.79	17.68	48.73	32.16	55.71	36.77
Manure Spreader 150	75	7.21	2.07	28.16	8.07	32.72	9.37
Manure Spreader 225	100	10.23	2.93	38.28	10.96	44.35	12.71
Hay Wagon	40	3.88	1.03	19.96	5.28	23.73	6.28
Forage Wagon 14 Ft	40	4.41	2.67	23.76	14.36	26.86	16.24

Item	Tractor HP	Cash Operating Costs 1/		Total Costs 2/		Suggested Custom Rates 3/	
		Per Hour	Per Acre	Per Hour	Per Acre	Per Hour	Per Acre
		---Dollars---					
MAINTENANCE EQUIPMENT:							
Cultivator 4-36	40	4.42	.95	18.39	3.95	21.71	4.66
Cultivator 6-30	60	6.37	1.09	23.42	4.02	28.01	4.81
Cultivator 12-30	140	16.15	1.39	52.09	4.48	61.96	5.33
Rotary Hoe 16	40	4.38	.40	27.82	2.56	33.17	3.05
Potato Cult. 4 Row	75	8.41	1.37	27.01	4.41	32.06	5.23
Beet Cult. 12 Row	100	12.40	2.07	55.85	9.31	67.01	11.17
Beet Thinner 12 Row	120	22.12	5.27	92.69	22.07	111.23	26.48
Sprayer 30 Ft	40	5.80	.41	27.51	1.94	32.97	2.32
Sprayer Hi Pres 50 Ft	60	17.75	.75	60.67	2.57	72.72	3.08
Anhydrous Applicator	160	21.65	1.70	88.52	6.96	98.17	7.71
Fertilizer Spreader 40	60	7.13	.18	60.68	1.56	71.33	1.84
Shredder 12 Ft	60	6.69	1.53	28.47	6.53	33.53	7.68
HARVESTING EQUIPMENT:							
Swather-Cond 12 Ft	---	8.27	1.52	53.66	9.84	59.96	10.99
Swather-Cond 15 Ft	---	8.49	1.25	56.07	8.22	62.61	9.18
Swather 18 Ft	---	9.93	1.14	69.15	7.92	78.46	8.99
1 Ton Stacker	60	8.80	2.12	31.29	7.55	36.74	8.86
3 Ton Stacker	75	14.97	3.09	47.30	9.78	55.14	11.40
Baler PTO Twine	40	6.59	1.74	28.46	7.53	31.82	8.41
Round Baler 1500 Lb	60	9.16	1.98	31.97	6.90	37.17	8.02
Rotary Mower	40	4.51	1.65	17.45	6.40	20.83	7.64
Rake (HYD)	40	4.70	1.35	17.04	4.88	20.01	5.73
Forage Harv 2 Row	100	14.51	8.77	62.44	37.74	72.33	43.72
For Harv 2 Row S P	---	27.95	13.72	114.89	56.42	130.85	64.26
Forage Blower Lg	60	6.02	6.02	28.06	28.06	31.54	31.54
Corn Picker 2-36	40	8.93	6.30	38.53	27.17	43.98	31.01
Picker-Sheller 2 Row	60	10.99	7.38	43.53	29.24	49.99	33.57
Combine Sm Gr Med	Med	37.47	7.93	92.95	19.66	110.55	23.39
Combine Soybeans Med	Med	38.63	9.34	97.14	23.48	114.89	27.73
Combine Corn 2-38 Sm	Sml	30.58	20.53	75.72	50.85	89.97	60.42
Combine Corn 4-36 Md	Med	42.19	14.88	103.33	36.43	121.86	42.96
Combine Corn 4-30 Md	Med	41.93	16.13	102.58	39.45	121.05	46.56
Combine Corn 8-30 Lg	Lrg	51.61	10.92	125.15	26.47	146.64	31.02
Potato Harv, 2 Row	120	20.70	8.31	101.64	40.83	117.64	47.25
Beet Lifter 6 Row	120	18.31	3.52	111.37	21.42	132.84	25.55
Beet Topper 6 Row	100	14.86	2.32	74.17	11.59	88.28	13.79
Beet Wagon 8 Ton	75	7.40	2.14	35.79	10.33	42.77	12.34

1/ CASH OPERATING COSTS: These costs, provided on a per-hour and per-acre basis, are estimates of the costs of fuel (diesel), oil, and repairs for the tractor and the implement as used for the particular function described. Labor cost estimates are NOT included in this figure.

2/ TOTAL COSTS: Total costs provide estimates of all costs associated with carrying out the particular function. These costs include cash operating costs, labor, and overhead costs for the tractor and implement. Labor is valued at $5.90 per hour for unskilled labor and $8.40 per hour for skilled labor.

3/ SUGGESTED CUSTOM RATES: The suggested custom rate values include an additional 20% over the total cost figures. This margin provides a profit to the custom operator and a return for the risk and travel expenses involved. Many times a custom operator will cover more acres annually than a commercial farmer. Therefore, for popular custom services the overhead costs may be spread over more acres and hours, thereby reducing the total costs.

* SOURCE: 1984 CUSTOM RATE ESTIMATES FOR MINNESOTA (F. Benson, L. Mittelstadt), Agricultural Extension Service, University of Minnesota, AG-FO-2309 Revised 1984.

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